Jeffries, Dawn (DEQ)

From:

Jeffries, Dawn (DEQ)

Sent:

Friday, December 04, 2015 11:11 AM

To:

'Jean Andrews'

Subject:

Stuarts Draft WWTP, VPDES Permit No. VA0066877, Augusta County

Dear Ms. Andrews:

Your application has been reviewed and appears to be complete. The next steps involve assembling the information necessary to develop the permit limitations and then drafting the permit. Once the draft permit is prepared and the appropriate reviews are performed, I will transmit the draft permit and supporting documentation to you for review. I expect to have this draft permit package to you within the next 3 months.

The Department of Environmental Quality strives to complete the permitting process in a timely manner. If you have any questions about our procedures or the status of your draft permit, please do not hesitate to contact us.

Sincerely,
Dawn Jeffries
VA Dept. of Environmental Quality
Valley Regional Office
P.O. Box 3000
Harrisonburg, Virginia 22801
540-574-7898
dawn.jeffries@deq.virginia.gov

MEMORANDUM

DEPARTMENT OF ENVIRONMENTAL QUALITY

VALLEY REGIONAL OFFICE

4411 Early Road - P.O. Box 3000

Harrisonburg, VA 22801

SUBJECT:

Application Errata for VPDES Permit No. VA0066877, Stuarts Draft WWTP, Augusta

County

TO:

PP File

FROM:

Dawn Jeffries

DATE:

December 3, 2015

The following deficiencies were noted in the subject permit reissuance application:

Sewage Sludge Application Form Addendum

Part 1 Item 6.b. - Based on information on file at DEQ-VRO, it is known that Houff's Feed & Fertilizer is authorized to land apply Class B biosolids from the Stuarts Draft WWTP under VPA Permit No. VPA01566, VPA01580, and VPA01581.

Part 2 Item 2. – Based on information on file at DEQ-VRO, it is known that the receiving facility utilizes fecal coliform monitoring to demonstrate compliance with the pathogen reduction requirements.

The deficiencies noted are insignificant and will not affect the preparation of a legally and technically defensible draft permit.

Reviewer Concurrence: Buc 12,4.15

AUGUSTA COUNTY SERVICE AUTHORITY

ASA

18 GOVERNMENT CENTER LANE, P.O. BOX 859, VERONA, VIRGINIA 24482 (540) 245-5670 FAX: (540) 245-5684

November 24, 2015

Ms. Dawn Jeffries
Environmental Engineer
Department of Environmental Quality
P. O. Box 3000
Harrisonburg, VA 22801-3000

RECEIVED
DEQ - Valley
NOV 2 4 2015
To: _____

RE: Stuarts Draft Permit Application (VA0066877)

Dear Ms. Jeffries:

Enclosed is the original permit renewal application for the Stuarts Draft Wastewater Treatment Plant.

The Augusta County Service Authority submitted E Coli data in lieu of fecal coliform data on Part 2A, Section A12. The Water Quality Standards now specify E coli to be tested in lieu of fecal coliform.

The Augusta County Service Authority is requesting reduced monitoring for BOD, TSS, Ammonia, and E coli for the next permit cycle. With regards to the Industrial Pretreatment Program, no new significant industrial users have been permitted for this system.

If you have any questions, please contact me at (540) 245-5677.

Sincerely,

Jean E. Andrews

Lab and Compliance Manager

/ja

Enclosures

Stuarts Draft WWTP VA0066877

	SIC*APPLICA	<u> </u>		PDI ICANTE		Committee of the Commit
120	Control of the contro	Are and the second control of	ORMATION FOR ALL A ions A.1 through A.8 of t		information neck	at you so the soul of the soul of
- Program	Facility Information	white the second	MISSEL WILLIAM STREET	ing name whileanou	, and maculi pack	
1 ·						
	Facility name	Stuarts Draft V	WTP		· · · · · · · · · · · · · · · · · · ·	
	Mailing Address	PO Box 859 Verona VA 24	482	·		
	Comtont north					TO THE PROPERTY OF THE PROPERT
	Contact person	Ken Fanfoni				· · · · · · · · · · · · · · · · · · ·
	Title	Executive Dire	ctor			
	Telephone number	(540) 245-567	<u>o</u>	1 2		
	Facility Address	391 Wayne Av		····	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	(not P.O. Box)	Stuarts Draft V	'A 24477			
A.2 .	Applicant Informat	ion. If the applica	nt is different from the abo	ve, provide the following	ng:	
	Applicant name					
	Mailing Address					
	Contact person	-				
	Title	- 		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
	Telephone number	<u></u>	· · · · <u>· · · · · · · · · · · · · · · </u>		· <u>·</u>	
	is the applicant the	owner or operat	tor (or both) of the treatm	ent works?		
	owner	✓	operator		٠.	
		respondence rega	- arding this permit should be	e directed to the facility	or the applicant.	
	facility		applicant			
A.3.	Existing Environme		rovide the permit number of	of any existing environment	nental permits that	have been issued to the treatment
	•			PSD		
				Other		
				Other		
A.4.	Collection System each entity and, if ki etc.).	Information. Pro nown, provide info	ovide information on munic rmation on the type of coll	ipalities and areas servection system (combin	ved by the facility. I ed vs. separate) an	Provide the name and population of d its ownership (municipal, private,
	Name		Population Served	Type of Collect	ion System	Ownership
	Stuarts Draft	:	5.815	Separate		<u>Municipal</u>
	· · · · · · · · · · · · · · · · · · ·					
	Total no	opulation served	5.815		isi ' 	
	i otai po	pulauon serveu	0.010			

arts	TY NAME AND PERMIT NUMBER: Draft WWTP VA0066877				Form Approved 1 OMB Number 20	
5. Ir	ndian Country.	-, , , ,	<u>.</u>			
a.	. Is the treatment works located in Indian Co	untry?				
	Yes No					
b.	Does the treatment works discharge to a re through) Indian Country?	ceiving water that is either	in Indian Country or t	hat is upstream fron	n (and eventually	flows
	Yes					
a۱	low. Indicate the design flow rate of the treat verage daily flow rate and maximum daily flow eriod with the 12th month of "this year" occum	rate for each of the last the	ree vears. Each vear	s data must be base	andle). Also pro ed on a 12-mont	vide th h time
a.	Design flow rate 4.0 mgd	•				
	<u> </u>	Two Years Ago	Last Year	This Ye	ar	
b.	Annual average daily flow rate	1.086		1.203	0.944	mad
C.		4.870		3.802		
.	- meaning now rate	4.0/0		5.602	2,909	ingu
. C	ollection System. Indicate the type(s) of coll ontribution (by miles) of each.	ection system(s) used by the	ne treatment plant. C	heck all that apply.	Also estimate th	e perc
	Separate sanitary sewer				100	%
	Combined storm and sanitary sewer					%
				· 		-,-
. D	ischarges and Other Disposal Methods.					
a.	Does the treatment works discharge effluer	t to waters of the U.S.?		_ √ Yes		Ñο
	If yes, list how many of each of the following	ıses:				
	i. Discharges of treated effluent				1	
	ii. Discharges of untreated or partially trea	ted effluent			0	
	iii. Combined sewer overflow points				0	
	iv. Constructed emergency overflows (prio	r to the headworks)		•	0	
	v. Other	ito allo ricadivorno,			<u> </u>	
				·		
b.	Does the treatment works discharge effluen impoundments that do not have outlets for d	t to basins, ponds, or other lischarge to waters of the L	surface J.S.?	Yes		No
	If yes, provide the following for each surface	e impoundment:	·			
	Location:					
	Annual average daily volume discharged to	surface impoundment(s)	<u> </u>		mgd	
	Is discharge continuous or	intermittent?			· ·	
C.	Does the treatment works land-apply treater	1 wastewater?		Yes	ſ	No
-	If yes, provide the following for each land ar			168		NO
	I analism					
			 			
	Number of acres:	·				
	Annual average daily volume applied to site		Mgd			
	Is land application continuou	s or intermi	ttent?			

Stuarts Draft WWTP VA0066877

Form Approved 1/14/99 OMB Number 2040-0086

		•	
	other than the applicant, provide:		
Transporter name:		•	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Mailing Address:			
Contact person:			
Title:			Ψ'
Telephone number:		-	
			
For each treatment wor	s that receives this discharge, provide the following:		
Maria			
Name:			
Mailing Address:			
Contact person:			
Title:			
Telephone number:		· · · · · · · · · · · · · · · · · · ·	
If known, provide the Ni	DES permit number of the treatment works that receives this discharge	a	 .
Provide the average da	y flow rate from the treatment works into the receiving facility.		NA mg
Bullo and a control of the	is discharge or dispose of its wastewater in a manner not included in we (e.g., underground percolation, well injection)?	Yes	✓ No
A.8.a through A.8.d abo	ing for each disposal method:		
A.8.a through A.8.d abo	T		
A.8.a through A.8.d about if yes, provide the follow	ncluding location and size of site(s) if applicable):		

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Stuarts Draft WWTP VA0066877 WASTEWATER DISCHARGES: If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question. A.8.a, go to Part B. "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd." A.9. Description of Outfall. a. Outfall number 001 b. Location Stuarts Draft 24477 (City or town, if applicable) Augusta (County) 38° 01' 08.9" (State) 79° 01' 00.7" (Latitude) (Longitude) c. Distance from shore (if applicable) d. Depth below surface (if applicable) e. Average daily flow rate 0.944 mgd Does this outfall have either an intermittent or a periodic discharge? If yes, provide the following information: Number of times per year discharge occurs: Average duration of each discharge: Average flow per discharge: Months in which discharge occurs: Is outfall equipped with a diffuser? A.10. Description of Receiving Waters. South River a. Name of receiving water b. Name of watershed (if known) Potomac Basin, Shenandoah Subbasin United States Soil Conservation Service 14-digit watershed code (if known): c. Name of State Management/River Basin (if known): United States Geological Survey 8-digit hydrologic cataloging unit code (if known): d. Critical low flow of receiving stream (if applicable): acute chronic _____ cfs e. Total hardness of receiving stream at critical low flow (if applicable): _____ mg/l of CaCO3

		Y NAME AND P Draft WWTP V					Form Approved 1/14/99 OMB Number 2040-0086								
A. 1	1. De	scription of Tre	atment.											7	
	a.	What levels of	treatment ar	e provid	led? Cl	neck all tha	it ap	ply.							
		Pri	imary			✓ Se	con	tary							
			vanced			Ot	her.	Describe:							
	b.	Indicate the fol	lowing remo	val rate	s (as ap	oplicable):									
		Design BOD ₅ r	emoval <u>or</u> D	esign C	BOD₅ r	emoval			95	·		%	_ %		
		Design SS rem	noval						95	<u> </u>		<u> </u>			
		Design P remo	val						92	.=		%			
		Design N remo	ival						88			%			
		Other			_			*	· <u>· </u>			%			
	C.	What type of d	isinfection is	used fo	or the e	ffluent fron	o thị:	s outfall? If disin	fection varies	by seas	on, pl	ease describe			
		UV												· · · · · · · · · · · · · · · · · · ·	
		If disinfection is	s by chlorina	ition, is	dechlor	ination use	ed fo	r this outfall?	·. •		_ Ye	s		No	
	d.									1	Ye	s		No	
	O	utfall number:	<u>001</u>				DAII	Y VALUE	10,34 Tollo		AVEF	RAGE DAILY V	- 13. n	· · · · · · · · · · · · · · · · · · ·	
	Ž.				`	'alue		Units	Valu	e		Units/		Number of Samples	
pН	(Min	imum)			6.9			s.ü.					Ü		
рΗ	(Max	dmum)			8.4			ŝ.ŭ.					Į,		
Flo	w Ra	ite			4.870		MC	SD	1.078 N		MG	D	109	95	
Te	mper	ature (Winter)			18	<u> </u>	°¢	.	12	_	° C		543	 	
Te	mper	ature (Summer)			25	المام المستنسب	° C		21		° C		552	2	
5	•	For pH please re	24		AXIMU	M DAILY ARGE	vai		E DAILY DISC	CHARGE		ANALYTICA METHOD	1.67	ML/MDL	
14. C						Units		Conc.	Units	Numb Samp					
CO		NTIONAL AND N	IONCONVE	NTION	AL CO	MPOUNDS	<u> </u>	Income Comment of the	*			1			
		MICAL OXYGEN	BOD-5	12		mg/L		<2	mg/L	326		SM 5210B		2 mg/L	
		(Report one)	CBOD-5												
		COLIFORM	<u> </u>	118 (E	E.coli)	n/cml		2 (E.coli)	n/cml	469		Idexx		1 n/cml	
		USPENDED SOL	IDS (TSS)	1.7		mg/L		<1.0	mg/L	37		SM 2540D	D 1.0 mg/L		
R	EFI	ER TO THE	E APPLI	CAT	ON (OVERV	/IE	D OF PAR W TO DET	ERMINE	WHIC	СН	OTHER P	'Al	RTS OF FORM	

	,	Y NAME AND PERMIT NUMBER: Draft WWVTP VA0066877	Form Approved 1/14/99 OMB Number 2040-0086
BA	SI	C APPLICATION INFORMATION	
PAI	₹T E	3. ADDITIONAL APPLICATION INFORMATION FOR APP EQUAL TO 0.1 MGD (100,000 gallons per day).	LICANTS WITH A DESIGN FLOW GREATER THAN OR
All a	pplk	cants with a design flow rate ≥ 0.1 mgd must answer questions B.1 thr	ough B.6. All others go to Part C (Certification).
B.1.	ln:	flow and Inflitration. Estimate the average number of gallons per da	y that flow into the treatment works from inflow and/or infiltration.
	Br	iefly explain any steps underway or planned to minimize inflow and inf	iltration.
	<u>A</u>	CSA continues to investigate and repair problems as discovered	ed.
B.2.	Th	ppographic Map. Attach to this application a topographic map of the a is map must show the outline of the facility and the following informati e entire area.)	on. (You may submit more than one map if one map does not show
	a.	The area surrounding the treatment plant, including all unit processe	
	b.	The major pipes or other structures through which wastewater enters treated wastewater is discharged from the treatment plant. Include of	the treatment works and the pipes or other structures through which outfalls from bypass piping, if applicable.
	Ç.	Each well where wastewater from the treatment plant is injected und	erground.
	d.	Wells, springs, other surface water bodies, and drinking water wells works, and 2) listed in public record or otherwise known to the applic	that are: 1) within 1/4 mile of the property boundaries of the treatment ant.
	e.	Any areas where the sewage sludge produced by the treatment work	ss is stored, treated, or disposed.
	f.	If the treatment works receives waste that is classified as hazardous truck, rail, or special pipe, show on the map where that hazardous w disposed.	under the Resource Conservation and Recovery Act (RCRA) by aste enters the treatment works and where it is treated, stored, and/or
B.3.	bac	cess Flow Diagram or Schematic. Provide a diagram showing the particle of the particle of the provide a water sources or redundancy in the system. Also provide a water balance must show daily average of the particle of the	r balance showing all treatment units, including disinfection (e.g,
B.4.	Оре	eration/Maintenance Performed by Contractor(s).	
	Are	any operational or maintenance aspects (related to wastewater treatnerstor?YesNo	nent and effluent quality) of the treatment works the responsibility of a
	lf ye pag	es, list the name, address, telephone number, and status of each contres if necessary).	actor and describe the contractor's responsibilities (attach additional
	Nan	ne:	
	Mai	ling Address:	
	Tele	ephone Number:	
		ponsibilities of Contractor:	
	trea	eduled Improvements and Schedules of Implementation. Provide ompleted plans for improvements that will affect the wastewater treatment works has several different implementation schedules or is plan for each. (If none, go to question B.6.)	lent, effluent quality or design canacity of the treatment works. If the
	а.	List the outfall number (assigned in question A.9) for each outfall that	is covered by this implementation schedule.

b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.

_Yes _

___No

Form Approved 1/14/99 **FACILITY NAME AND PERMIT NUMBER:** OMB Number 2040-0086 Stuarts Draft WWTP VA0066877 If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable). Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible. **Actual Completion** Schedule MM / DD / YYYY MM / DD / YYYY Implementation Stage - Begin construction __/__/___ - End construction - Begin discharge Attain operational level Have appropriate permits/clearances concerning other Federal/State requirements been obtained? Yes No Describe briefly: B.6. EFFLUENT TESTING DATA (GREATER THAN O.1 MGD ONLY). Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old. Outfall Number: 001 AVERAGE DAILY DISCHARGE MAXIMUM DAILY POLLUTANT DISCHARGE Units Units Number of ANALYTICAL ML / MDL Conc. Conc. METHOD Samples 1. 18 18 18 CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. AMMONIA (as N) 156 SM 4500-NH3 D 0.20 ma/L < 0.20 mg/L 0.38 mg/L CHLORINE (TOTAL 3 Hach 8167 0.1 mg/L <0.1 mg/L < 0.1 mg/L RESIDUAL, TRC) DISSOLVED OXYGEN 0.1 ma/L 1095 SM4500-O G 9.8 mg/L 12.6 mg/L TOTAL KJELDAHL 156 SM 4500-Norg C 0.50 mg/L 0.91 mg/L 1.98 mg/L NITROGEN (TKN) NITRATE PLUS NITRITE 156 SM 4500-NO3 F 0.05 mg/L 5.52 ma/L 1.66 mg/L NITROGEN OIL and GREASE 3 5.0 mg/L **EPA 1664 A** <5.0 <5.0 mġ/L mg/L PHOSPHORUS (Total) 156 SM 4500-P E 0.05 0.15 mg/L 0.56 mg/L TOTAL DISSOLVED 10 ma/L SM 2450 C 451 mg/L 396 mg/L SOLIDS (TDS) OTHER

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

END OF PART B.

FACILITY NAME AND			Form Approved 1/14/99 OMB Number 2040-0086
Stuarts Draft WWTP \			
BASIC APPLIC	ATION INFORMAT	rion	
PART C. CERTIFICA	TION	Andrew Committee Com	en e
applicants must completed and are	te all applicable sections of F submitting. By signing this	orm 2A, as explained in the Arcertification statement, applica-	mine who is an officer for the purposes of this certification. All plication Overview. Indicate below which parts of Form 2A you nts confirm that they have reviewed Form 2A and have completed
Indicate which parts o	f Form 2A you have comple	eted and are submitting:	
Basic Appli	cation Information packet	Supplemental Application I	nformation packet:
		Part D (Expanded	Effluent Testing Data)
		Part E (Toxicity Te	sting: Biomonitoring Data)
		Part F (Industrial L	Iser Discharges and RCRA/CERCLA Wastes)
		Part G (Combined	Sewer Systems)
ALL APPLICANTS MUS	ST COMPLETE THE FOLLO	WING CERTIFICATION.	
designed to assure that who manage the system	qualified personnel properly on those persons directly resident of the complete. I am aware that	gather and evaluate the inform sponsible for gathering the info	under my direction or supervision in accordance with a system ation submitted. Based on my inquiry of the person or persons rmation, the information is, to the best of my knowledge and for submitting false information, including the possibility of fine
Name and official title	Kenneth J. Fanfoni, Exe	cutive Director	
Signature	16mtl	17-/-	
Telephone number	(540) 245-5670	<i>/</i>	
Date signed	11/20	15	·
Upon request of the perr works or identify approp	mitting authority, you must su riate permitting requirements.	bmit any öther information neo	essary to assess wastewater treatment practices at the treatment

SEND COMPLETED FORMS TO:

Stuarts Draft WWTP VA0066877

Outfall number: 001

SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

MAXIMUM DAILY AVERAGE DAILY DISCHARGE

(Complete once for each outfall discharging effluent to waters of the United States.)

왕의 나는 없는 경우리 생각하는 것이 없는데?		DISCH	IARGE	in the second				in the second				
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	MU MDL X	
METALS (TOTAL RECOVERABLE), (CYANIDE,	PHENO	LS, AND	HARDNE	SS.							
ANTIMONY	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	200.7	5	
ARSENIC	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	200.7	5	
BERYLLIUM	<0.5	ug/L	<0.01	kg/D	<0.5	ug/L	<0.01	kg/D	3	200.7	0.5	
CADMIUM	<0.5	ug/Ļ	<0.01	kg/D	<0.5	ug/L	<0.01	kg/D	3	200.7	0.5	
CHROMIUM	1	ug/L	0.018	kg/D	0.3	ug/L	0.001	kg/D	. 3	200.7	1	
COPPER	4	ug/L	0.074	kg/D	2.3	ug/L	0.009	kg/D	3	200.7	2	
LEAD .	<5	ug/L	<0.09	kg/D	<5	ug/Ļ	<0.02	kg/D	3	200.7	5	
MERCURY	<0.2	ug/L	<0.01	kg/D	<0.2	ug/L	<0.01	kg/D	3	245.1	0.2	
NICKEL	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	200.7	5	
SELENIUM	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	200.7	5	
SILVER	<1	ug/L	<0.02	kg/D	<1	ug/L	<0.01	kg/D	3	200.7	1	
THALLIUM	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	200.7	5	
ZINC	80.0	ug/L	1.47	kg/D	52.3	ug/L	0.21	kg/D	3	200.7	5	
CYANIDE	<5	ug/L	<0.09	kg/D	< 5	ug/L	<0.02	kg/D	3	335.4	5	
			<u> </u>								, 	

kg/D

kg/D

10

114

ug/L

mg/L

ug/L

mg/L

Use this space (or a separate sheet) to provide information on other metals requested by the permit writer

30

125

0.55

2304

kg/D

kg/D

.0.04

465

3

3

420.4

2340B

20

0.331

TOTAL PHENOLIC COMPOUNDS

HARDNESS (AS CaCO₃)

FACILITY NAME AND PERMIT NUMBER: Stuarts Draft WWTP VA0066877

Outfall number: 001									the United	States.)	
POLLUTANT			JM DAIL HARGE	Y	A	VERAG	E DAILY	DISCH	ARGE		and the sign
	Conc.	Units		Units	Conc.	Units	Mass	Units	Number of	ANALYTICAL METHOD	ML/ MDL
VOLATILE ORGANIC COMPOUNDS.	1. Fr 15 Su	16.76		6,8,12,13-	1	1		72.	Samples	<u> </u>	To the Galace
ACROLEIN	<50	ug/L	<0.92	kg/D	<50	ug/L	<0.20	kg/D	3	624	50
ACRYLONITRILE	<50	ug/L	<0.92	kg/D	<50	ug/L	<0.20	kg/D	3	624	50
BENZENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
BROMOFORM	<5	ug/Ļ	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
CARBON TETRACHLORIDE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
CLOROBENZENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
CHLORODIBROMO-METHANE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
CHLOROETHANE	<5	üġ/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
2-CHLORO-ETHYLVINYL ETHER	<10	ug/L	<0.18	kg/D	<10	ug/L	<0.04	kg/D	3	624	10
CHLOROFORM	<5	üg/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
DICHLOROBROMO-METHANE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
1,1-DICHLOROETHANE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
1,2-DICHLOROETHANE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
TRANS-1,2-DICHLORO-ETHYLENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
1,1-DICHLOROETHYLENE	<5	ug/L	<0.09	kg/D	< 5	ug/L	<0.02	kg/D	3	624	5
1,2-DICHLOROPROPANE	< 5	ug/L	<0.09	kg/D	< 5	ug/L	<0.02	kg/D	3	624	5
1,3-DICHLORO-PROPYLENE	<5	ug/L	<0.09	kg/D	<5	ug/Ļ	<0.02	kg/D	3	624	5
ETHYLBENZENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
METHYL BROMIDE	<5	ug/L	<0.09	kg/D	< 5	ug/L	<0.02	kg/D	3	624	5
METHYL CHLORIDE	< 5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
METHYLENE CHLORIDE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
1,1,2,2-TETRACHLORO-ETHANE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kġ/D	3	624	5
TETRACHLORO-ETHYLENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
FOLUENE	< 5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5

Stuarts Draft WWTP VA0066877

Outfall number: 001									the United S	riales.)	
POLLUTANT	N		M DAILY IARGE		A۱	/ERAGE	DAILY	DISCHA	ARGE		
e di kalang pengangan pengangan pengangan belanggan belanggan belanggan belanggan belanggan belanggan belangga Belanggan belanggan	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
1,1,1-TRICHLOROETHANE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
1,1,2-TRICHLOROETHANE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
TRICHLORETHYLENE	<5 ⁻	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
VINYL CHLORIDE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	· -	3	624	5
Use this space (or a separate sheet) to	provide in	ormatio	on other	volatile o	rganic coi	npounds	requested	by the p	ermit writer.		- /
ACID-EXTRACTABLE COMPOUNDS											· · · · · · · · · · · · · · · · · · ·
P-CHLORO-M-CRESOL	<5	uġ/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
2-CHLOROPHENOL	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
2,4-DICHLOROPHENOL	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
2,4-DIMETHYLPHENOL	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
4,6-DINITRO-O-CRESOL	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
2,4-DINITROPHENOL	<20	ug/L	<0.37	kg/D	<20	ug/L	<0.08	kg/D	3	625	20
2-NITROPHENOL	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
4-NITROPHENOL	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
PENTACHLOROPHENOL	<10	ug/L	<0.18	kg/D	<10	ug/L	<0.04	kg/D	3	625	10
PHENOL	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
2,4,6-TRICHLOROPHENOL	<5	ug/L	<0.09	ı •	<5	ug/L	·	- T	3	625	5
Use this space (or a separate sheet) to	provide in	formatio	n on other	r acid-exti	ractable c	ompound	s request	od by the	permit writer.		
		<u> </u>									
BASE-NEUTRAL COMPOUNDS.	1		· -	т –	Τ	1		1	I	<u> </u>	
ACENAPHTHENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
ACENAPHTHYLENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
ANTHRACENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
BENZIDINE	<5	ug/L	<0.09	kg/D	<5	üg/L	<0.02	kg/D	3	625	5
BENZO(A)ANTHRACENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	. 5
BENZO(A)PYRENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5

FACILITY NAME AND PERMIT NUMBER: Stuarts Draft WW/TP VA0066877

Outfall number: 001									the United	States.)	4 22 22 22 22 22 22 22 22 22 22 22 22 22
POLLUTANT	liti. Liti.lažv		JM DAIL HARGE	Y	A	VERAGI	EDAILY	DISCH	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
3,4 BENZO-FLUORANTHENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
BENZO(GHI)PERYLENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
BENZO(K)FLUQRANTHENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
BIS (2-CHLOROETHOXY) METHANE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
BIS (2-CHLOROETHYL)-ETHER	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
BIS (2-CHLOROISO-PROPYL) ETHER	< 5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
BIS (2-ETHYLHEXYL) PHTHALATE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
4-BROMOPHENYL PHENYL ETHER	<5	ùg/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
BUTYL BENZYL PHTHALATE	<5	üg/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
2-CHLORONAPHTHALENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
4-CHLORPHENYL PHENYL ETHER	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
CHRYSENE	< 5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
DI-N-BUTYL PHTHALATE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
DI-N-OCTYL PHTHALATE	< 5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
DIBENZO(A,H) ANTHRACENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
1,2-DICHLOROBENZENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
1,3-DICHLOROBENZENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	5
1,4-DICHLOROBENZENE	< 5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	624	-5
3,3-DICHLOROBENZIDINE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
DIETHYL PHTHALATE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
DIMETHYL PHTHALATE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
2,4-DINITROTOLUENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
2,6-DINITROTOLUENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
1,2-DIPHENYLHYDRAZINE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5

Stuarts Draft WWTP VA0066877

Outfall number: 001									the United S		•
POLLUTANT	- N	,	JM DAIL) HARGE	()	A۱	/ERAGE	DAILY	DISCHA	ARGE		
ar san agairtí a na 15th lean 1969 ag <u>2000 agus agairtí agairtí</u>	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
FLUORANTHENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
FLUORENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
HEXACHLOROBENZENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
HEXACHLOROBUTADIENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
HEXACHLOROCYCLO- PENTADIENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
HEXACHLOROETHANE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
INDENO(1,2,3-CD)PYRENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
ISOPHORONE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
NAPHTHALENE	<5	ug/L	<0.09	kg/D	< 5	ug/L	<0.02	kg/D	3	625	5
NITROBENZENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
N-NÏTROSODI-N-PROPYLAMINE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
N-NITROSODI- METHYLAMINE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
N-NITROSODI-PHENYLAMINE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kġ/D	3	625	5
PHENANTHRENÉ	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
PYRÈNE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	kg/D	3	625	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	<0.09	kg/D	<5	ug/L	<0.02	l -	3	625	5
Use this space (or a separate sheet) to	provide in	nformatio	n on other	base-ne	utral comp	oounds re	quested l	y the pe	rmit writer.		
						Ι			<u></u>	<u> </u>	<u> </u>
Use this space (or a separate sheet) to	provide in	iformatio	in on other	r pollutan	ts (e.g., pe	esticides)	requested	I by the p	ærmit writer.	·	
				1			1				

END OF PART D. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

	the state of the s										
FACILITY NAME AND PERMIT NUMBE Stuarts Draft WWTP VA0066877	R:		Form Approved 1/14/99 OMB Number 2040-0086								
	The state of the s										
SUPPLEMENTAL APPLIC	ATION INFORMATION	a file and the file of the fil									
PART E. TOXICITY TESTING D	ATA .		<u>. </u>								
POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters: • At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum or two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with DA/QC requirements of 40 CFR Part 136, and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. • In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity tests conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted. • If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test surmanies are available that contain all of the information requested below, they may be submitted in place of Part E. Refer to the Application Overview for directions on whic											
a. Test information.											
Test species & test method number											
Age at initiation of test		<u></u>	· · · · · · · · · · · · · · · · · · ·								
Outfall number		١									
Dates sample collected											
Date test started											
Duration											
b. Give toxicity test methods followed	ed.										
Manual title											
Edition number and year of publication											
Page number(s)											
c. Give the sample collection metho	d(s) used. For multiple grab samples	, indicate the number of grab sample	s used.								
24-Hour composite											
Grab											
d. Indicate where the sample was ta	ken in relation to disinfection. (Check	all that apply for each)									
Before disinfection											

After disinfection

After dechlorination

FACILITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99 OMB Number 2040-008
Stuarts Draft WWTP VA0066877	Civil Number 2010-000

	Test number:	Test number:	Test number:
e. Describe the point in the treatmen	it process at which the sample was o	collected.	
Sample was collected:			
f. For each test, include whether the	test was intended to assess chronic	toxicity, acute toxicity, or both.	
Chronic toxicity			
Acute toxicity			
g. Provide the type of test performed	J.		
Static			
Static-renewal			
Flow-through			
h. Source of dilution water. If labora	tory water, specify type; if receiving	water, specify source.	
Laboratory water			
Receiving water			
i. Type of dilution water. It salt water	r, specify "natural" or type of artificia	ll sea salts or brine used.	
Fresh water		,	
Salt water			
j. Give the percentage effluent used	for all concentrations in the test seri	ies.	···
k. Parameters measured during the	test. (State whether parameter mee	ts test method specifications)	
рН			
Salinity			
Temperature			
Ammonia			
Dissolved oxygen			
I. Test Results.	· · · · · · · · · · · · · · · · · · ·		
Acute:			
Percent survival in 100% effluent	%	%	%
LC₅o			
95% C.I.	%	%	%
Control percent survival	%	%	%
Other (describe)			

FACILITY NAME AND PERMIT NUMBER: Stuarts Draft WWTP VA0066877			Form Approved 1/14/99 OMB Number 2040-0086
Chronic:			
NOEC	%	%	%
IĊ ₂₅	%	%	%
Control percent survival	%	%	%
Other (describe)			
m. Quality Control/Quality Assurance.			
Is reference toxicant data available?			
Was reference toxicant test within acceptable bounds?			
What date was reference toxicant test run (MM/DD/YYYY)?			
Other (describe)			
E.3. Toxicity Reduction Evaluation. Is the treat	ment works involved in a Toxicity Redu	uction Evaluation?	
Yes_✓ No If yes, describe	e:		
E.4. Summary of Submitted Biomonitoring Tea cause of toxicity, within the past four and on summary of the results.	it Information. If you have submitted e-half years, provide the dates the info	biomonitoring test informati rmation was submitted to th	on, or information regarding the e permitting authority and a
Date submitted:(MN	Í/DD/YYYY)		
Summary of results: (see instructions)			
Spreadsheet is attached			•
			

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE.

STUARTS DRAFT WWTP TOXICITY MONITORING REPORT RESULTS

			Acute (LC50) Chronic:(NOEC) (IWC = 41%) as of 3/03												
Date.	Report Type	Ceriodaphnia	C. dubia	Pimephales	P. promelas		Cer	iodaphnia du	bia		1	Pin	ephales prom		
· ·		dübla	Survival.TUa	promelas	Survival TUs	Survival	Survival TUc	Reprod.	Reprod TUc	Reprod IC25	Survival	Survival TUc	Growth	Growth TUc	Growth IC ₁₅
January 30 - February 2, 2012	Quarterly	>100%	1.00	>100%	1.00	100%	N/A	100%	<1.00	>100	100%	1.00	100%	1.00	>100%
January 30 - February 2, 2012		-			-		- 1	-	-	-	100%	N/A	100%	<1.00	>100%
	Annual	>100%	1.00	>100%	1.00	100%	N/A	100%	<1.00	.>100	100%	1.00:	100%	1.00	>100%
May 13 - 16, 2013	Annual (treated)**	-	-	-	-	-	-	-	-	-	100%	N/A	100%	<1.00	>100%
	Annual (treated)**	>100%	1.00	>100%	1.00	100%	N/A	100%	<1.00	>100	100%	-N/A	100%	<1.00	>100%
	Annual (treated)**	>100%	1.00	>100%	1.00	100%	N/A.	100%	<1.00	>100	100%	N/A	100%	<1.00	>100%

Annual Tests: 4 MGD flow tier

Acute LC50 of 100%, equivalent to 1.0 TUa Chronic NOEC of 94.1%, equivalent to 1.06 TUc

^{*} Possible pathogen interference

^{**} Additional UV irradiation (20 minutes) was performed on this sample.

Stuarts Draft WWTP VA0066877

Bakery

Flow Rate.

Form Approved 1/14/99 OMB Number 2040-0086

SU	PPLEMENTAL	APPLICATI	ON INFORMATI	<u>ONE Properties</u>	- J. Phaselfor Galfrey (4 15 15)	and the second s
All ti	reatment works receiv	ring discharges fr	CHARGES AND RO	l users or which re	ceive RCRA, CERCLA	, or other remedial wastes must
GE	NERAL INFORMA	TION:				
F.1.	Pretreatment Progra	m. Does the treatn	nent works have, or is it s	ubject to, an approv	ed pretreatment program	n?
F.2.	Number of Signification of industrial users that			i Industrial Users (CIUs). Provide the num	ber of each of the following types
	a. Number of non-c	ategorical SIUs.	2		• .	
	b. Number of CIUs.		· <u>.1</u>			
SIG	NIFICANT INDUS	TRIAL USER I	NFORMATION:			
Sup and	ply the following info provide the informati	rmation for each S on requested for e	IU. If more than one Si each SIU.	U discharges to th	e treatment works, cop	y questions F.3 through F.8
F.3,	Significant Industria pages as necessary.		,	address of each SIU	J discharging to the trea	ment works. Submit additional
	Name:	McKee Foods	Corporation	<u>·</u>		· · · · · · · · · · · · · · · · · · ·
	Mailing Address:	PO Box 486				
1		Stuarts Draft.	VA 24477		*	

F.5.	Principal Product(s) and Raw Material(s).	Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	discharge.	

Principal product(s): Snack cakes and cookies

Raw material(s): Corn syrup, salad oil, sugar, flour, shortenings

F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Raw material(s): Corn syrup, salad oil, sugar, liour, shorter

a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

49,900 gpd (✓ continuous or ____intermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection

system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

20,500 gpd (✓ continuous or ____intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

a.	Local limits	✓Yes	No	
b,	Categorical pretreatment standards	Yes	No	

If subject to categorical pretreatment standards, which category and subcategory?

FACILITY NAME AND PERMIT NUMBER: Stuarts Draft WWTP VA0066877			Form Approved 1/14/99 OMB Number 2040-0086		
F.8.	Problems at the Treat upsets, interference) at	ment Works Attribute the treatment works in	d to Waste Discharged the past three years?	by the SIU. Has the SIU cause	d or contributed to any problems (e.g.
	Yes_√_No	If yes, describe o			
	 				
				<u> </u>	
CE	A HAZARDOUS WA	STE BECEIVED BY	TRUCK BAIL OR C	DEDICATED PIPELINE:	
				···	
·.y.	pipe?Yes	No (go to F.12.)	eive or has it in the past t	hree years received RCRA haza	rdous waste by truck, rail, or dedicate
.10.	Waste Transport. Me	thod by which RCRA w	aste is received (check	all that apply):	
	Truck	Rail	Dedicated Pipe		
		-			
.11.				(volume or mass, specify units).	
	EPA Hazardous Waste	Number	<u>Amount</u>	<u>Units</u>	
			· 		 .
		······································			
	·				
ED	CLA (SUDEDELIND)	WASTEWATER R	SPA PENEDIATION	20DDF0TN/F	
CT	CLA (SUPERFUND) ION WASTEWATER,	AND OTHER REM	EDIAL ACTIVITY WA	STEWATER:	
	*			en notified that it will) receive wa	into from romadial activities 9
	Yes (complete F.				iste from remedial activities?
	Trovide a list of sites a	na me reducated mioni	nation (1.13 - 1.13.) for e	each current and future site.	
.13.	Waste Origin. Describin the next five years).	e the site and type of f	acility at which the CERO	CLA/RCRA/or other remedial was	ste originates (or is expected to origin
			·		
.14.	Pollutants. List the haknown. (Attach addition	zardous constituents tr ial sheets if necessary)	nat are received (or are e	expected to be received). Include	e data on volume and concentration,
					<u> </u>
.15.	Waste Treatment.				
	a. Is this waste treated	(or will it be treated) p	rior to entering the treatr	nent works?	
	YesNo				
	If yes, describe the t	treatment (provide info	rmation about the remov	al efficiency):	
				• • • • • • • • • • • • • • • • • • • •	
			*** -		
	b. Is the discharge (or	will the discharge be) o	continuous or intermittent	?	
	Continuous	Intermit		nt, describe discharge schedule.	•
	= - : : : : : : : : : : : : : : : : : :		ii niteiiintte	in, seed be discilling sciedule.	
	and the second of the second o		END OF P	ARTE	and the second of the second o
₹ĔF	ER TO THE AP	PLICATION			THER PARTS OF FOR
			2A YOU MUST	COMPLETE	PITER FAR 13 OF FUR
<u>13.5.</u>	<u> مستقر سند سندن و سند سند دو اوه، </u>	and the second of the second	EV ION MOSI	COMPLETE	

Form Approved 1/14/99

	ts Draft WWTP VA00		OMB Number 2040-0086
SU	PPLEMENTAL	APPLICATION INFORMATION	
PAR	RT F INDUSTRI	AL USER DISCHARGES AND RCRA/	CERCLA WASTES
All tr	eatment works receivi	ng discharges from significant industrial use	rs or which receive RCRA, CERCLA, or other remedial wastes must
GEN	NERAL INFORMAT		
F.1.	Pretreatment Program	n. Does the treatment works have, or is it subject	t to, an approved pretreatment program?
F.2,	Number of Significan of industrial users that	nt Industrial Users (SIUs) and Categorical Indu discharge to the treatment works.	strial Users (CIUs). Provide the number of each of the following types
	a. Number of non-car	regorical SIUs. 2	
	b. Number of Clus.	1	
SIG	NIFICANT INDUST	TRIAL USER INFORMATION:	
Supi	nly the following infor	nation for each SIU. If more than one SIU dis-	charges to the treatment works, copy questions F.3 through F.8
and	provide the informatio	n requested for each SIU.	and and a property of the second of the seco
F.3.	Significant Industrial pages as necessary	User Information. Provide the name and addre	ss of each SIU discharging to the treatment works. Submit additional
	Name:	Hershey Chocolate of Virginia	<u> </u>
	Alle Weet Address	400 Harati Carla Daire	
	Mailing Address:	120 Harold Cook Drive Stuarts Draft, VA 24477	
F.4.		. Describe all of the industrial processes that affor	ect or contribute to the SIU's discharge.
	Confectionery Man	ufacturing	
F.5.	Principal Product(s) discharge.	and Raw Material(s). Describe all of the princip	al processes and raw materials that affect or contribute to the SIU's
	Principal product(s):	Candy	
	Raw material(s):	Corn Syrup, Sugar, Chocolate, Peanut O	il <u>.</u>
F.6,	Flow Rate.		
	Process wastewat per day (gpd) and	er flow rate. Indicate the average daily volume o whether the discharge is continuous or intermitte	f process wastewater discharged into the collection system in gallons ent.
	98,000	gpd (✓ continuous orintermittent)	
	b. Non-process was	tewater flow rate. Indicate the average daily volu per day (gpd) and whether the discharge is conti	me of non-process wastewater flow discharged into the collection nuous or intermittent.
	31,700		
F.7.	Pretreatment Standa	rds. Indicate whether the SIU is subject to the fo	ollowing:
	a. Local limits	✓ YesNo	
	b. Categorical pretre	eatment standardsYesNo	•
1	If subject to categoric	al pretreatment standards, which category and su	ubcategory?

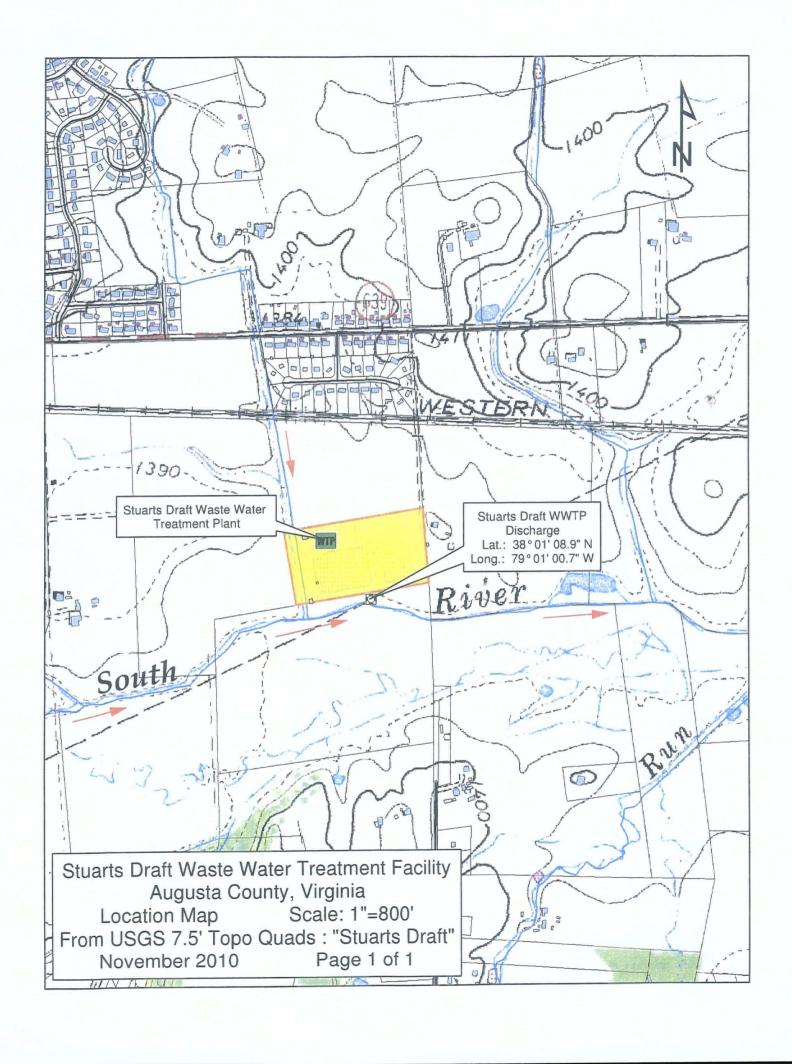
FACILITY NAME AND PERMIT NUMBER: Stuarts Draft WWTP VA0066877		Form Approved 1/14/99 OMB Number 2040-0086
F.8. Problems at the Treatment Works Attributed to Wast upsets, interference) at the treatment works in the past	te Discharged by th	e SIU. Has the SIU caused or contributed to any problems (e.g.,
Yes ✓ No If yes, describe each episo		
7 E		
RCRA HAZARDOUS WASTE RECEIVED BY TRUCK		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F.9. RCRA Waste. Does the treatment works receive or has pipe?YesNo (go to F.12.)	s.it in the past three y	ears received RCRA hazardous waste by truck, rail, or dedicated
F.10. Waste Transport. Method by which RCRA waste is re-	ceived (check all that	apply):
TruckRailDec	dicated Pipe	
F.11. Waste Description. Give EPA hazardous waste numb	er and amount (volu Amount	ne or mass, specify units). <u>Units</u>
· · · · · · · · · · · · · · · · · · · 		
		Line and the second of the se
CERCLA (SUPERFUND) WASTEWATER, RCRA REM ACTION WASTEWATER, AND OTHER REMEDIAL A	WEDIATION/CORI CTIVITY WASTEN	RECTIVE VATER:
F.12. Remediation Waste. Does the treatment works curren		
Yes (complete F.13 through F.15.)	Nô	
Provide a list of sites and the requested information (F.	13 - F.15.) for each c	urrent and future site.
F.13. Waste Origin. Describe the site and type of facility at win the next five years).	which the CERCLA/R	CRA/or other remedial waste originates (or is expected to originate
F.14. Pollutants. List the hazardous constituents that are recknown. (Attach additional sheets if necessary).	ceived (or are expect	ed to be received). Include data on volume and concentration, if
F.15. Waste Treatment.		
 a. Is this waste treated (or will it be treated) prior to ent YesNo 	enng the treatment v	vorks?
If yes, describe the treatment (provide information at	bout the removal effic	eiency):
	· · · · · · · · · · · · · · · · · · ·	
		
b. Is the discharge (or will the discharge be) continuous	s or intermittent?	
ContinuousIntermittent	If intermittent, de	scribe discharge schedule.
		, , , , , , , , , , , , , , , , , , , ,
	END OF PART	F. RMINE WHICH OTHER PARTS OF FORM

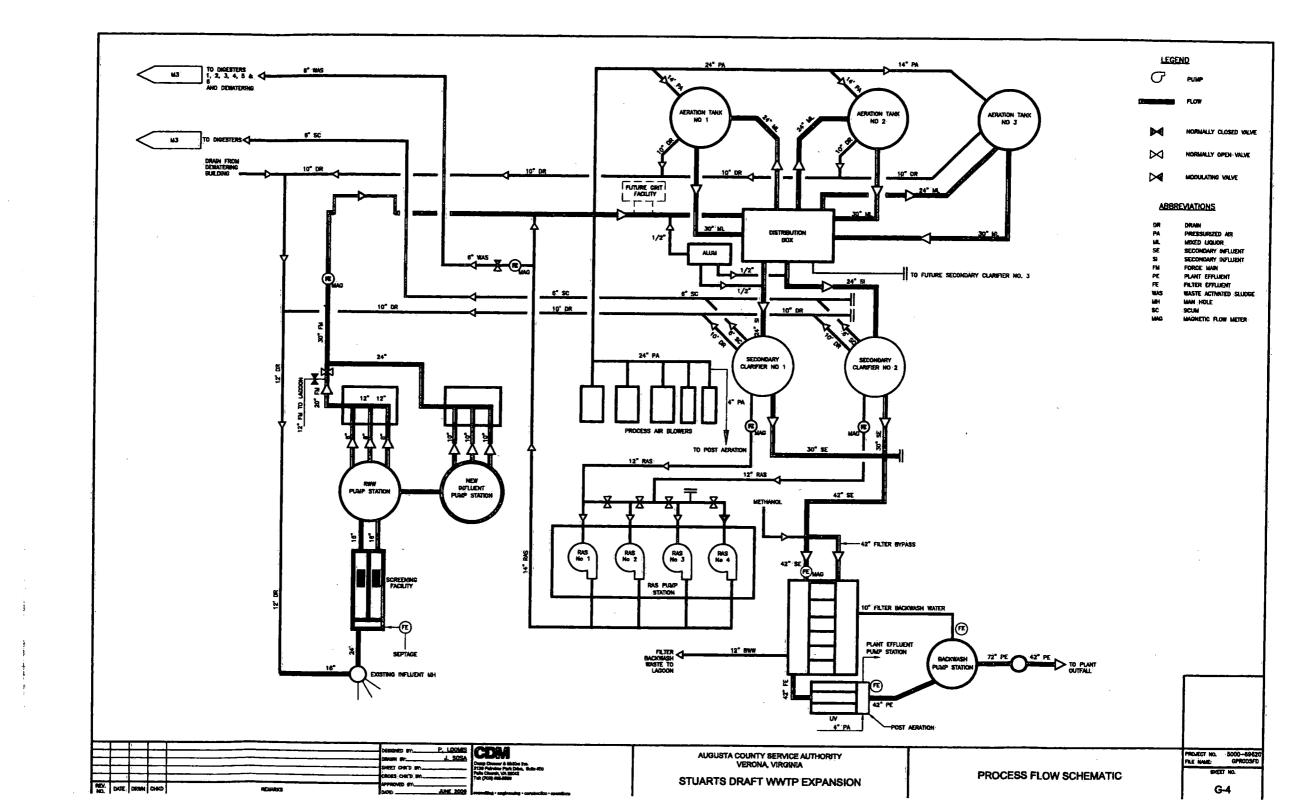
2A YOU MUST COMPLETE

	*	Child Hambol 2010 4000
SUF	PPLEMENTAL	APPLICATION INFORMATION
	(新型) (A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	AL USER DISCHARGES AND RCRA/CERCLA WASTES ng discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must
GEN	IERAL INFORMAT	TON:
F.1.	Pretreatment Progran ✓ YesNo	Does the treatment works have, or is it subject to, an approved pretreatment program?
F.2.		t Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types discharge to the treatment works.
	a. Number of non-cat	egorical SIUs.
	b. Number of CIUs.	
SIGI	NIFICANT INDUST	RIAL USER INFORMATION:
Supp and p	ly the following information	nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 n requested for each SIU.
F.3.	Significant industrial pages as necessary.	User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	Name:	Nibco of Virginia, Incorporated
	Mailing Address:	131 Johnson Drive Stuarts Draft, VA 24477
F.4.		. Describe all of the industrial processes that affect or contribute to the SIU's discharge. tings manufacturer, including foundry
	Copper plumbing in	ungs manufacturer, including foundry
F.5.	Principal Product(s) discharge	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Principal product(s):	Copper Fittings
	Raw material(s):	Copper
F.6.	Flow Rate.	
	a. Process wastewat per day (gpd) and	er flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons whether the discharge is continuous or intermittent.
	11,000	pd (intermittent)
	b. Non-process wast system in gallons	ewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection per day (gpd) and whether the discharge is continuous or intermittent.
	10,300	pd (intermittent)
F.7.	Pretreatment Standa	ds. Indicate whether the SIU is subject to the following:
	a. Local limits	<u>✓ YesNo</u>
	b. Categorical pretre	atment standards YesNo
	If subject to categorica	al pretreatment standards, which category and subcategory?
	Part 468 Subpart A	

FAC	LITY NAME AND PERMIT NUMBER:			Form Approved 1/14/99 OMB Number 2040-0086
F.8.	Problems at the Treatment Works Attu upsets, interference) at the treatment wo	ributed to Waste Discharged by thorks in the past three years?	e SIU. Has the SIU caused or co	ntributed to any problems (e.g.,
	Yes_✓_No If yes, des	cribe each episode.		
RCF	A HAZARDOUS WASTE RECEIVE	D BY TRUCK, RAIL, OR DEDIC	CATED PIPELINE:	
F.9.	RCRA Waste. Does the treatment work pipe?YesNo (go to F.12.)	s receive or has it in the past three y	ears received RCRA hazardous v	aste by truck, rail, or dedicated
F.10	Waste Transport. Method by which RO	CRA waste is received (check all that	t apply):	
	TruckRail	Dedicated Pipe	•	
F.11.	Waste Description. Give EPA hazardo EPA Hazardous Waste Number	ous waste number and amount (volui <u>Amount</u>	me or mass, specify units). <u>Units</u>	
				
CER	CLA (SUPERFUND) WASTEWATE	R, RCRA REMEDIATION/CORF	RECTIVE	
	ON WASTEWATER, AND OTHER			
r.12.	Remediation Waste. Does the treatme —Yes (complete F.13 through F.15.)		tified that it will) receive waste from	n remedial activities?
	Provide a list of sites and the requested	 _	urrent and future site.	
F.13.	Waste Origin. Describe the site and typin the next five years).	pe of facility at which the CERCLA/R	CRA/or other remedial waste orig	inates (or is expected to originate
				··
F.14.	Pollutants. List the hazardous constitution. (Attach additional sheets if nece	ents that are received (or are expect ssary).	ed to be received). Include data d	n volume and concentration, if
F.15.	Waste Treatment.			- <u></u>
11.10.	a. Is this waste treated (or will it be trea	ited) prior to entering the treatment w	vorks?	
	YesNo			
	If yes, describe the treatment (provid	e information about the removal effic	ciency):	
				- 1
	b. Is the discharge (or will the discharge	e be) continuous or intermittent?		
	ContinuousI	ntermittent If intermittent, de	scribe discharge schedule.	
		END OF PART		and the state of
REI	ER TO THE APPLICATIO		and the control of th	R PARTS OF FORM

2A YOU MUST COMPLETE





VPDES Sewage Sludge Permit Application for Permit Reissuance Instructions WHO MUST SUBMIT THE APPLICATION - All facilities with a current VPDES Permit that authorizes the discharge of treated sewage wastewater that are applying for reissuance must complete and submit this application. Part 1 is general information to be provided by all facilities. Part 2 must be completed by all facilities that generate Class A or Class B biosolids that are land applied. Part 3 must be completed by all facilities that land apply Class B biosolids. Part 1 - Sludge Disposal Management (To be completed by all facilities) Facility Name: Stuarts Draft WWTP VPDES Permit No: VA0066877 1. Shipment Off Site for Treatment or Blending ✓ Yes □ No Is sewage sludge from your facility sent to another facility that provides treatment or blending? If you send sewage sludge to more than one facility, attach additional sheets as necessary. Shipment off site is: The primary method of sludge disposal A back up method of sludge disposal Middle River Regional WWTP or Fishersville Regional WWTP a. Receiving Facility Name b. Receiving Facility VPDES Permit No. VA0064793 or VA0025291 c. Include an acceptance letter from the Receiving Facility. d. Receiving Facility's ultimate disposal method for sewage sludge Landfill (primary) or land application (secondary) 2. Disposal in a Municipal Solid Waste Landfill Yes No Is sewage sludge from your facility placed in a municipal solid waste landfill? If sewage sludge is placed on more than one municipal solid waste landfill, attach additional pages as necessary. Landfilling is: The primary method of sludge disposal ☐ A back up method of sludge disposal Augusta Regional Landfill a. Landfill Name b. Landfill Permit No. c. Include an acceptance letter from the landfill. 3. Incineration ☐ Yes ✓ No Is sewage sludge from your facility fired in a sewage sludge incinerator? A back up method of sludge disposal Incineration is: The primary method of sludge disposal a. Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? ☐ Yes ☐ No If yes, provide the Air Registration No. If no, complete items b - d for each incinerator that you do not own or operate. b. Facility Name c. Air Registration No. d. Include an acceptance letter from the Incinerator. Class A Biosolids Do you produce Class A biosolids for land application or distribution and marketing? If yes, complete Part 2. ☐ Yes **✓** No ☐ No ☐ Yes Are Class A biosolids from your facility land applied in bulk? Do you sell or give away Class A biosolids in a bag or other container for application to the land? If yes, provide the ☐ Yes ☐ No VDACS certification number? 5. Class B Biosolids Yes No Do you produce Class B biosolids? If yes, complete Part 2. Are Class B biosolids from your facility land applied land applied under the authorization of this VPDES Permit? If yes, **▼** No ☐ Yes complete Part 3. 6. Land Application Under a Separate Permit Are biosolids from your facility land applied under the authorization of a permit other than your VPDES Permit? Yes No Biosolids are land applied under the authorization of a VPA permit Another VPDES Permit Out of State Complete items a - c for each VPA permit authorized to land apply biosolids from your facility. b. Permit No. a. Permittee Name **VPA01566** Houff Feed and Fertilizer c. Include copy of any information you provide to the Receiving VPDES or VPA Permittee to comply with the "notice and necessary information" requirement of 9VAC25-31-530 F.

	VPDES Sewage Sludge Permit Application for Permit Reissuance		
Pя	art 2 – Biosolids Characterization (To be completed by all facilities that generate biosolids that are land appl	Jlied.)	
	Have there been changes to sludge treatment processes or storage facilities since the previous permit issuance/reissuance?	Yes Yes	☑ No
2.	Do the biosolids generated under this permit that will be land applied meet one of the Class A pathogen requirements in 9VAC25-31-710 A 3 through A 8 or Class B pathogen requirements in 9VAC25-31-710 B 1 through B 4?	✓ Yes	□No
	Identify the pathogen reduction option utilized to demonstrate compliance with the pathogen reductions requirements and proventate demonstrate compliance with the applicable alternative.	vide the dat	ta
3.	Do the biosolids generated under this permit that will be land applied meet one of the vector attraction reduction requirements in 9VAC25-31-720 B 1 through B 10?	✓ Yes	□ No
	Identify the vector attraction reduction option utilized to demonstrate compliance with the vector attraction reductions requirer provide the data that demonstrate compliance with the applicable alternative.	ments and	
4.	Do the biosolids to be land applied meet the ceiling/pollutant concentrations in 9VAC25-31-540 B?	✓ Yes	□ No
5 _v	Has data from the most recent 3 samples for pH (S.U.), Percent Solids (%), Ammonium Nitrogen (mg/kg), Nitrate Nitrogen (mg/kg), Total Kjeldahl Nitrogen (mg/kg), Total Phosphorus (mg/kg), Total Potassium (mg/kg), Alkalinity as CaCO ₃ (mg/kg), Arsenic (mg/kg), Cadmium (mg/kg), Copper (mg/kg), Lead (mg/kg), Mercury (mg/kg), Nickel (mg/kg), Selenium (mg/kg), Zinc (mg/kg) been submitted to DEQ? The samples shall be no more than 4½ years old and each sampling date shall be at least 1 month apart.	✓ Yes	□ No
A.3-	If no, provide the data with this application.		
	art 3 – Land Application of Class B Biosolids (To be completed by all facilities that land apply Class B biosol		Sent War
	Provide to DEQ and to each locality in which biosolids are to be land applied, written evidence of financial responsibility. Eviresponsibility shall be provided in accordance with 9VAC25-31-100 P 9.		
	For each site, provide a properly completed landowner agreement for each landowner, using the most current Land Application Biosolids Form (VPDES Sewage Sludge Permit Application Form – Attachment to Section C).	n Agreeme	:nt -
	Are any new land application fields proposed at this reissuance?	☐ Yes	☐ No
	If yes, contact the DEQ Regional Office for additional submittal requirements.		
	For the currently permitted land application fields, are the previously submitted site booklets, maps and acreage accurate.	☐ Yes	□ No
	If no, contact the DEQ Regional Office for additional submittal requirements.		
5.	Does the facility's Biosolids Management Plan on file with DEQ include the following minimum information?		□ No
	a. An odor control plan that addresses the abatement of odors resulting from the storage and/or land application of biosoli	.ids.	
	b. A description of the transport vehicles to be used.		
	 Procedures for biosolids offloading at the land application site including spill prevention, cleanup (including vehicle cleanup reclamation, and emergency notification and cleanup measures. 		
	 d. A description of the land application equipment including procedures for calibrating equipment to ensure uniform distribution appropriate loading rates. 		
	e. Procedures used to ensure that land application activities address notification requirements, signage requirements, slope operation limitations during periods of inclement weather, soil pH requirements, buffer zone requirements, and site rest	strictions.	
	f. Any other information necessary to ensure compliance with the requirements of the Biosolids Program of the VPDES P (9VAC25-31-420 through 720).	Permit Reg	ulation
	ertification	s sign	
des wh bel	pertify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance asigned to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the penalties the information of the penalties for submitteness, to the best of my known and the system or those persons directly responsible for gathering the information, the information is, to the best of my known and the system of the penalties for submitting false information, including the penalties for submitting false information, including the penalties for knowing violations.	person or per knowledge a	ersons
	Name and Official Title Kenneth J. Fanfoni, Executive Director		
	Signature 1 Com Al 1. Fe/a		
	Telephone number / Email (540) 245-5670 / kfanfoni@co.augusta.va.us		
	Date signed		
(Ba	ased on a review of this information, it may be necessary to submit additional information to meet other legal or technical review requirements.)	\	

Jeffries, Dawn (DEQ)

From:

Jean Andrews [jandrews@co.augusta.va.us] Thursday, December 10, 2015 12:05 PM

Sent:

Jeffries, Dawn (DEQ)

Subject:

RE: Stuarts Draft Permit Application, VA0066877

Hi Dawn,

Stuarts Draft produced 179.07 DMT of biosolids in 2014. Let me know if you need anything else.

Jean

From: Jeffries, Dawn (DEQ) [mailto:Dawn.Jeffries@deq.virginia.gov]

Sent: Thursday, December 03, 2015 12:15 PM

To: Jean Andrews

Subject: Stuarts Draft Permit Application, VA0066877

Jean,

I received the application your sent in for this reissuance, and I have just one more question. What is the tonnage of biosolids at this facility per year?

Thanks! Dawn

Dawn Jeffries
VA Dept. of Environmental Quality
Valley Regional Office
P.O. Box 3000
Harrisonburg, Virginia 22801
540-574-7898
dawn.jeffries@deq.virginia.gov

This e-mail transmission may contain information that is proprietary, privileged and/or confidential and is intended exclusively for the person(s) to whom it is addressed. Any use, copying, retention or disclosure by any person other than the intended recipient or the intended recipient's designees is strictly prohibited. If you are not the intended recipient or their designee, please notify the sender immediately by return e-mail and delete all copies. Thank you. County of Augusta.

AUGUSTA COUNTY SERVICE AUTHORITY



18 GOVERNMENT CENTER LANE, P.O. BOX 859, VERONA, VIRGINIA 24482-0859 PHONE: 540-245-5670 FAX: 540-245-5684

October 1, 2015

Ms. Jean Andrews
Lab and Compliance Manager
Augusta County Service Authority
P.O. Box 859
Verona, VA 24482

Subject:

Acceptance of Stuarts Draft WWTP's Biosolids at the Augusta Regional Landfill

Dear Ms. Andrews:

The Augusta Regional Landfill will accept biosolids from the Stuarts Draft WWTP as long as the waste meets the Solid Waste Management Regulation 9VAC-20-81-140.B.4.e. and our Solid Waste Facility Permit Number 585.

The regulation and our permit require that biosolids be dewatered and contain no free liquids (must be able to pass a paint filter test).

If you have any questions concerning this matter, please call me at (540) 337-2857 ext. 104.

Sincerely,

Gregory A. Thomasson, P.E.

Director of Solid Waste Management

NOTICE AND NECESSARY INFORMATION

Biosolids notification requirements to comply with 9VAC25-31-530.F - G or 9VAC25-32-313.G - H.

Part I - To be completed by PREPARERS of biosolids and provided to the person who applies or receives those biosolids

Facility Name: Stuarts Dra	it WWTP	Permit Number:	VA0066877
A. Metals Limitations Sample Date(s): 7	/22/15	r	Number of Samples: 1

	Concen	trations	PC/CPLR Limitations	Ceiling Limitations (2)		
Parameters	Monthly Average (mg/kg) (1)	Maximum (mg/kg) (1)	Monthly Average (mg/kg) (1)	Maximum (mg/kg) (1)		
Total Arsenic	3.0	3.0	41	75		
Total Cadmium	1.9	1.9	39	85		
Total Copper	628	628	1,500	4,300		
Total Lead	18.4	18.4	300	840		
Total Mercury	0.9	0.9	17	57		
Total Molybdenum	4.77	4.77	NL (3)	75		
Total Nickel	11.6	11.6	420	420		
Total Selenium	8.9	8.9	100	100		
Total Zinc	748	748	2,800	7,500		

⁽¹⁾ Values to be reported on a dry weight basis.

B. Class B Pathogen Reduction

Class B biosolids	pathogen reduction	requirements w	ere achieved i	n accordance w	ith 9VAC25-31-3	710.B or
9VAC25-32-675	R by:					

9VAC25-32-675.B by:	iii accordance wigi 5 v AC25-51-710.B
☑ Alternative 1: Fecal coliform testing -geometric mean of 7 sample: ☐ Alternative 2: Process to Significantly Reduce Pathogens (PSRP)	
☐ Option 1 - Aerobic digestion	
☐ Option 2 - Air drying beds	·
☐ Option 3 - Anaerobic digestion	s ·
☐ Option 4 - Composting	·
☐ Option 5 - Lime Stabilization	
Other:	F1944

⁽²⁾ Sludge may not be land applied if any pollutant exceeds these values.

⁽³⁾ The monthly average concentration for molybdenum is currently under study by USEPA. Research suggests that a monthly average molybdenum concentration below 40 mg/kg may be appropriate to reduce the risk of copper deficiency in grazing animals.

NOTICE AND NECESSARY INFORMATION

C.	Vector Attraction Reduction (VAR)										
	VAR requirements for Class B bio 9VAC25-32-685.B.1 − 8 by:	✓ VAR requirements for Class B biosolids were achieved in accordance with 9VAC25-31-720.B.1 – 8 or 9VAC25-32-685.B.1 – 8 by:									
	☐ Option 1: ≥ 38% volatile solids ☐ Option 2: Anaerobic 40 day ber ☐ Option 3: Aerobic 30 day bench ☑ Option 4: Specific Oxygen Upta ☐ Option 5: Aerobic process, 14 d ☐ Option 6: Alkaline stabilization ☐ Option 7: Dry to ≥ 75% T.S. w/ ☐ Option 8: Dry to ≥ 90% T.S.	nch test n test ake Rate (SOUR) test lays @ 40°C (45°C)									
	OR										
	□ VAR requirements for Class B bid or 9VAC25-32-685.B.1 – 8; theref land application site.		ance with 9VAC25-31-720.B.1 – 8 10 (Incorporation) is required at the								
D.	Nutrient Concentrations										
	Sample Date(s): 7/11/14	Number of	Samples: 1								
		Concer	ntrations								
	Parameters	Monthly Average (mg/kg) (1)	Maximum (mg/kg) (1)								
	Total Nitrogen as N (TKN)	49,700	49,700								
	Total Phosphorus as P (P ₂ O ₅)	48,200	48,200								
E.	*Values to be reported on a dry weight base Certification I certify under penalty of law that this supervision in accordance with a syste evaluate the information submitted. But those persons directly responsible for knowledge and belief, true, accurate and selections.	document and all attachments were m designed to assure that qualified ased on my inquiry of the person of gathering the information, the info nd complete. I am aware that there	l personnel properly gather and r persons who manage the system or rmation is, to the best of my e are significant penalties for								
	ne and official title Kenneth J. Fanfor		nment for knowing violations.								
Tel	ephone number <u>540-245-5670</u>	V									

VIRGINIA POLLUTION DISCHARGE ELIMINATION SYSTEM

MUNICIPAL EFFLUENT AND BIOSOLIDS

NON-HAZARDOUS WASTE DECLARATION

For waste to be land applied, the owner of the treatment works, as defined by 9 VAC 25-31-10, must sign the following statement:

I certify that the waste from the facility identified below and described in this application is non-hazardous and not regulated under the Resource Conservation and Recovery Act or the Virginia Hazardous Waste Management Regulation (9 VAC 20-60).

Facility Name:	Stuarts Draft WWTP	<u> </u>
VPDES, NPDES or St	ate Permit Number: VA0066877	
(Signature of Owner)	A 17-fa	11/20/15 (Date)
Kenneth J. Fanfoni	•	
(Printed Name of Own	ner)	
Executive Director	,	
(Title)		
Generator Contact Inf	formation	•
Jean Andrews, Lal	b and Compliance Manager	
(Name and Title)		,
PO Box 859, Veron	na VA 24482	
(Address)		
540-245-5677		
(Phone Number)		
jandrews@co.augu	ISTA.VA.US	
(Email Address)		

Augusta County Service Authority

Stuarts Draft WWTP (VA0066877) Biosolids Data

	Sample	Solids		TKN		Ammonia		NO ₃ -NO ₂	Organic	Nitrogen
Facility	Date	%	mg/kg	%	mg/kg	%	mg/kg	mg/kg	%	mg/kg
Stuarts Draft - 2013	8/22/2013	1.23	12,300	4.88	48,800	0.73	7,320	1,460	4.15	41,480
Stuarts Draft - 2014	7/11/2014	1.55	15,500	5.29	52,900	0.39	3,870	4,980	4.90	49,030
Stuarts Draft - 2015	7/22/2015	1.32	13,200		49,700		1,170	573		48,700

	Sample	Phosp	horus	Available P ₂ O ₅		Potassium		Alkalinity	pН	Moisture	Total Vol	atile Solids
Facility	Date	%	mg/kg	%	mg/kg	%	mg/kg	mg/kg	S.U.	%	%	mg/kg
Stuarts Draft - 2013	8/22/2013	3.73	37,300	7.72	77,200	0.41	4,070	54,600	7.11	98.77	63.19	631,900
Stuarts Draft - 2014	7/11/2014	3,56	35,600	4.82	48,200	0.39	3,910	41,100	6.84	98.45	66.77	667,700
Stuarts Draft - 2015	7/22/2015			<0.01			4,820	15,000	6.93	98.68	69.20	692,000

Augusta County Service Authority

Stuarts Draft WWTP (VA0066877) Biosolids Data

	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Zinc
Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
8/22/2013	6.0	<2.0	56	761	21	0.7	6	18	7.0	961
7/11/2014	4.0	2.0	60	671	26	0.9	6	18	6.0	1,010
7/22/2015	3.0	1.9	19.2	628	18.4	0.9	4.77	11.6	8.9	748
EPA Ceiling*	75	85	3,000	4,300	840	57	75	4,000	250	7,500
EPA Exceptional **	41	39	1,200	1,500	300	1:7	N/A	420	36	2,800

^{*} EPA Ceiling Concentration for Pollutants for all Sewage Sludge Applied to Land (mg/kg).

** EPA Pollutant Concentration for Exceptional Quality Sewage Sludge (mg/kg).

Augusta County Service Authority

Stuarts Draft WWTP (VA0066877) TCLP Data

	Stuarts Draft	Stuarts Draft	Stuarts Draft
	8/22/2013	10/7/2014	9/1/2015
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	< 0.500	< 0.100	< 0.100
Barium	0.054	<5.00	< 5.00
Benzene	< 0.050	< 0.02	< 0.02
Cadmium	< 0.050	< 0.0400	< 0.0400
Carbon Tetrachloride	< 0.050	< 0.02	< 0.02
Chlordane	< 0.00307	<0.02	< 0.030
Chlorobenzene	< 0.050	<2.00	< 0.02
Chloroform	< 0.050	< 0.100	<2.00
Chromium	<0.500	< 0.01	<0.100
o-Cresol	< 0.0246	<0.01	< 0.02
m/p-Cresol	< 0.0246	<0.01	< 0.02
2,4-D	< 0.00998	< 0.001	< 0.001
1,4-Dichlorobenzene	< 0.0246	< 0.02	< 0.02
1,2-Dichloroethane	< 0.050	< 0.02	< 0.02
1,1-Dichloroethene	< 0.050	< 0.02	< 0.02
2,4-Dinitrotoluene	< 0.0246	<0.01	< 0.02
Endrin	< 0.00025	< 0.005	< 0.005
gamma-BHC	< 0.00012	< 0.005	< 0.005
Heptachlor	< 0.00012	< 0.005	< 0.005
Heptachlor (+epoxide)	< 0.00012	< 0.005	< 0.005
Hexachlorobenzene	< 0.0246	< 0.01	< 0.02
Hexachlorobutadiene	< 0.0246	<0.01	< 0.02
Hexachloroethane	< 0.0246	<0.01	<0.02
Lead	< 0.500	<0.100	< 0.100
Mercury	< 0.0020	<0.008	<0.008
Methoxychlor	< 0.00123	< 0.005	< 0.005
Methyl ethyl Ketone	< 0.500	<0.20	0.2
Nitrobenzene	< 0.0246	<0.01	<0.02
Pentachlorophenol	< 0.0246	< 0.02	< 0.02
Pyridine	<0.0246	<0.01	<0.02
Selenium	< 0.500	< 0.250	<0.250
Silver	< 0.100	<0.100	<0.100
Tetrachloroethylene	< 0.050	<0.02	<0.02
Toxaphene	< 0.00307	<0.500	< 0.500
Trichloroethylene	< 0.050	<0.02	<0.02
2,4,5-Trichlorophenol	<0.0246	<0.01	<0.02
2,4,6-Trichlorophenol	<0.0246	<0.01	<0.02
2,4,5-TP (Silvex)	<0.00499	< 0.0005	< 0.0005
Vinyl Chloride	<0.050	<0.02	<0.02

Stuarts Draft WWTP - Fecal Coliform and SOURs Data

			_
- 1			
Fecal Coliforms	2012**	2013**	2014**
Sample #1	8,364	62,857	8,941
Sample #2	7,619	39,639	8,706
Sample #3	6,545	57,143	5,176
Sample #4	8,571	60,000	4,664
Sample #5	10,286	65,714	4,239
Sample #6	10,476	27,542	6,750
Sample #7	10,095	65,714	5,882
Geo Mean	8,738	51,912	6,106

SOUR	0.5	1.10	0.94
% Total Solids	2.1	1.8	0.8

^{**} No biosolids were land applied this year.

Fecal coliforms were performed in-house. ACSA is not certified for this parameter.

VPDES Permit Application Addendum

1.	Entity to whom the permit is to be issued: Augusta County Service Authority Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may
	or may not be the facility or property owner.
Ž.	Is this facility located within city or town boundaries? YES NO Include a topographic map identifying the location of the facility, the property boundaries, and the discharge point.
3.	What is the tax map parcel number for the land where this facility is located? 84-100
4.	For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities?
5.	ALL FACILITIES: What is the design average flow of this facility? 4.0 MGD Industrial facilities: What is the maximum 30-day avg. production level (include units)? NA
	In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? YES V NO
	If "Yes", please specify the other flow tiers (in MGD) or production levels: Please consider: Is your facility's design flow considerably greater than your current flow? Do you plan to expand operations during the next five years?
6.	Nature of operations generating wastewater: Public Sewer
	78 % of flow from domestic connections/sources Number of private residences to be served by the wastewater treatment facilities: □ 0 □ 1-49 ▼ 50 or more
	% of flow from non-domestic connections/sources
7.	Mode of discharge: ✓ Continuous ☐ Intermittent ☐ Seasonal Describe frequency and duration of intermittent or seasonal discharges:
8.	Identify the characteristics of the receiving stream at the point just above the facility's discharge point: Permanent stream, never dry Intermittent stream, usually flowing, sometimes dry Ephemeral stream, wet-weather flow, often dry Effluent-dependent stream, usually or always dry
	☐ Lake or pond at or below the discharge point ☐ Other:
9.	Consent to receive electronic mail The Department of Environmental Quality (DEQ) may deliver permits, certifications and plan approvals to recipients, including applicants or permittees, by electronically certified mail where the recipients notify DEQ of their consent to receive mail electronically (§ 10.1-1183). Check <i>only one</i> of the following to consent to or decline receipt of electronic mail from DEQ as follows:
	Applicant or permittee agrees to receive by electronic mail the permit and any plan approvals associated with the permit that may be issued for the proposed pollutant management activity, and to certify receipt of such electronic mail when requested by the DEQ. Please provide email: jandrews@co.augusta.va.us
	Applicant or permittee declines to receive by electronic mail the permit and any plan approvals associated with the permit that may be issued for the proposed pollutant management activity.

VIRGINIA DEQ NO EXPOSURE CERTIFICATION FOR EXCLUSION FROM VPDES STORM WATER PERMITTING

Submission of this **No Exposure Certification** constitutes notice that the entity identified below does not require permit authorization for its storm water discharges associated with industrial activity under the VPDES Permit Program due to the existence of a condition of **No Exposure**.

A condition of **No Exposure** exists at an industrial facility when all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product or waste product. A storm resistant shelter is not required for the following industrial materials and activities:

- drums, barrels, tanks, and similar containers that are tightly sealed, provided those containers are not deteriorated and do not leak. "Sealed" means banded or otherwise secured and without operational taps or valves;
- adequately maintained vehicles used in material handling; and
- final products, other than products that would be mobilized in storm water discharges (e.g., rock salt).

A No Exposure Certification must be provided for each facility qualifying for the No Exposure exclusion. In addition, the exclusion from VPDES permitting is available on a facility-wide basis only, not for individual outfalls. If any industrial activities or materials are or will be exposed to precipitation, the facility is not eligible for the No Exposure exclusion.

By signing and submitting this No Exposure Certification form, the entity below is certifying that a condition of No Exposure exists at its facility or site, and is obligated to comply with the terms and conditions at 9 VAC 25-31-120 E (the VPDES Permit Regulation).

Please Type or Print All Information. ALL INFORMATION ON THIS FORM MUST BE PROVIDED. 1. Facility Operator Information Name: Augusta County Service Authority Mailing Address: PO Box 859 VA Zip: State: 24482 540-245-5670 Verona Facility/Site Location Information Facility Name: Stuarts Draft WWTP Address: 391 Wavne Avenue State: VA City: Stuarts Draft County Name: Augusta ____ Longitude: Latitude: 38° 01' 07.09" 79° 08' 17.93" No X 3. Was the facility or site previously covered under a VPDES storm water permit? Yes 🗔 If "Yes", enter the VPDES permit number: 4. SIC/Activity Codes: Primary: 4952 Secondary (if applicable): 5. Total size of facility/site associated with industrial activity: acres 17 6. Have you payed or roofed over a formerly exposed pervious area in order to qualify for the No Exposure exclusion? Yes | No | X If "Yes", please indicate approximately how much area was paved or roofed. Completing this question does not disqualify you for the No Exposure exclusion. However, DEQ may use this information in considering whether storm water discharges from your site are likely to have an adverse impact on water quality, in which case you could be required to obtain permit coverage.

One to five acres

Less than one acre

More than five acres

7. Exposure Checklist Are any of the following materials or activities exposed to precipitation, now or in the foreseeable future? (Please check either "Yes" or "No" in the appropriate box.) If you answer "Yes" to any of these questions (1) through (11), you are not eligible for the No Exposure exclusion. Yes No $\sqrt{\mathbf{x}}$ (1) Using, storing or cleaning industrial machinery or equipment, and areas where residuals from using, storing or cleaning industrial machinery or equipment remain and are exposed to storm water \mathbf{x} (2) Materials or residuals on the ground or in storm water inlets from spill/leaks \mathbf{x} (3) Materials or products from past industrial activity \mathbf{x} (4) Material handling equipment (except adequately maintained vehicles) $\overline{\mathbf{X}}$ (5) Materials or products during loading/unloading or transporting activities X (6) Materials or products stored outdoors (except final products intended for outside use [e.g., new cars) where exposure to storm water does not result in the discharge of pollutants) \mathbf{X} (7) Materials contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers $|\mathbf{X}|$ (8) Materials or products handled/stored on roads or railways owned or maintained by the discharger (9) Waste material (except waste in covered, non-leaking containers [e.g., dumpsters]) lx l (10) Application or disposal of process wastewater (unless otherwise permitted) $\overline{\mathbf{X}}$ (11) Particulate matter or visible deposits of residuals from roof stacks and/or vents not otherwise regulated (i.e., under an air quality control permit) and evident in the storm water outflow 8. Certification Statement I certify under penalty of law that I have read and understand the eligibility requirements for claiming a condition of no exposure and obtaining an exclusion from VPDES storm water permitting; and that there are no discharges of storm water contaminated by exposure to industrial activities or materials from the industrial facility identified in this document (except as allowed under 9 VAC 25-31-120 E 2). I understand that I am obligated to submit a No Exposure Certification form once every five years to the Department of Environmental Quality and, if requested, to the operator of the local MS4 into which this facility discharges (where applicable). I understand that I must allow the Department, or MS4 operator where the discharge is into the local MS4, to perform inspections to confirm the condition of no exposure and to make such inspection reports publicly available upon request. I understand that I must obtain coverage under a VPDES permit prior to any point source discharge of storm water associated with industrial activity from the facility. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Print Name: Kenneth I. Fanfoni Print Title: **Executive Director** Signature: Date: For Department of Environmental Quality Use Only Accepted/Not Accepted by: ____

Date:

PUBLIC NOTICE BILLING INFORMATION

notice billed to the Agent/Department sho	ironmental Quality to have the cost of publishing a public wn below. The public notice will be published once a week ton News Leader in accordance with 9 VAC 25-31-
Agent/Department to be billed:	Augusta County Service Authority
Owner:	
Agent/Department Address:	PO Box 859
	Verona VA 24482
Agent's Telephone No.:	540-245-5670
Printed Name:	Ken Fanfoni
Authorizing Agent – Signature:	16mA 17-/~
Date:	11/20/15
Facility Name: Stuarts Draft WWTP	

VPDES Permit No. VA 0066877

VPDES/VPA Permit Billing Information Form for Annual Maintenance Fee

Facility Name:	Stuarts Draft WWTP
Permit Number:	VA0066877
Owner Name:	Augusta County Service Authority
Owner Address:	PO Box 859
	Verona, VA 24482
Billing Contact Name:	Jean Andrews
Title:	Lab and Compliance Manager
Phone Number:	540-245-5677
E-Mail Address:	jandrews@co.augusta.va.us

CLIENT:

Augusta County Service Authority

ATTN:

Jean Andrews

ADDRESS: 18 Government Ctr Ln PO BOX 859

Verona, VA 24482-0859

PHONE:

(540) 245-5670

FAX:

e: jandrews@co.augusta.va.us

Special Notes: Supplement to Report No.:15-01469 10:37

(Revised added Hardness)

RE: Industrial Pretreatment Monitoring

EPA FORM 2A - PART D

Discharge to Stuarts Draft WWTP

SAMPLE COLLECTED BY: CLIENT

GRAB COLLECTION:

Date: 1/28/2015

Time: 1115

COMPOSITE COLLECTION:

Start Date:

Time:

End Date:

Time:

PICK UP BY: UPS

SAMPLE RECEIPT:

Date: 1/29/2015

Time: 0925

NUMBER OF CONTAINERS: 8

SAMPLE CONDITION: Good

Other (See C-O-C)

REPORT NO: 15-01469 16:32

SAMPLE ID:

STUARTS DRAFT EFF

SAMPLE NO: 15-01469

	Method	JRA					
Parameter	Number	QL	Result	Unit	Analyst	Date	Time
Total Recoverable Antimony	200.7	0.005	< 0.005	mg/L	EFA	02/02/15	1508
Total Recoverable Arsenic	200.7	0.005	< 0.005	mg/L	ĖFA	02/02/15	1508
Total Recoverable Beryllium	200.7	0.0005	< 0.0005	mg/L	EFA	02/02/15	1508
Total Recoverable Cadmium	200.7	0.0005	< 0.0005	mg/L	EFA	02/02/15	1508
Total Recoverable Chromium	200.7	0.001	0.001	mg/L	EFA	02/02/15	1508
Total Recoverable Copper	200.7	0.002	0.004	mg/L	EFA	02/02/15	1508
Total Recoverable Lead	200.7	0.005	< 0.005	mg/L	EFA	02/02/15	1508
Total Recoverable Mercury	245.1	0,0002	< 0.0002	mg/L	PEI	02/05/15	1542
Total Recoverable Nickel	200.7	0.005	< 0.005	mg/L	EFA	02/02/15	1508
Total Recoverable Selenium	200.7	0.005	< 0.005	mg/L	EFA	02/02/15	1508
Total Recoverable Silver	200.7	0.001	< 0.001	mg/L	LFA	02/02/15	1508
Total Recoverable Thallium	200.7	0.005	< 0.005	ing/L	EFA	02/02/15	1508
Total Recoverable Zinc	200.7	0.005	0.080	mg/L	EFA	02/02/15	1508
Phenols	420.4	0.02	< 0.02	mg/L	PLJ	01/30/15	1403
Cyanide	335.4	0.005	< 0.005	mg/L	ARC	01/29/15	1326
Hardness	*2340B	0.331	125	mg/L	EFA	02/02/15	1508
Semi-Volatiles							
Dibenz[a,h]Anthracene	625	5	< 5	ug/L	CLH	02/03/15	2208
4-Nitrophenol	625	5	< 5	ug/L	CLH	02/03/15	2208
Benzidine	625	5	< 5	ug/L	CĹĦ	02/03/15	2208
Benzo[a]Anthracene	625	5	< 5	ug/L	CLH	02/03/15	2208
Chrysene	625	5	< 5	ug/L	CLH	02/03/15	2208
3,3-Dichlorobenzidine	625	5	≤ 5	ug/L	CLIT	02/03/15	2208
Bis(2-ethylhexyl) phthalate	625	5	< 5	ug/L	CLH	02/03/15	2208
Di-n-Octyl phthalate	625	5 .	< 5	ug/L	CLH	02/03/15	2208
Benzo[b]Fluoranthene	625	5	< 5	ug/L	CLH	02/03/15	2208
Benzo[k]Fluoranthene	625	5	< 5'	ug/L	CLH	02/03/15	2208
Benzo[a]Pyrene	625	5	< 5	ug/L	CLĤ	02/03/15	2208
Indeno[1,2,3-c,d]Pyrene	625	5	< 5	ue/L	CLH	02/03/15	2208
Benzo[g.h,i]Perylene	625	5	< 5	ug/L	CLH	(12/03/15	2208

James R. Reed & Associates

770 Pilot House Drive, Newport News, VA 23606

(757) 873-4703 • Fax: (757) 873-1498



SAMPLE ID: STUARTS DRAFT EFF

SAMPLE NO: 15-01469

_	Method	JRA				_	
Parameter	Number	QI.	Result	Unit	Analyst	Date	Time
Semi-Volatiles			•				
2-Chlorophenol	625	5	< 5	ug/L	CLIT	02/03/15	2208
Phenol	625	.5	< 5	ug/L	Cl.H	02/03/15	2208
2-Nitrophenol	625	.5	< 5	ug/L	CLH	02/03/15	2208
2,4-Dimethylphenol	625	5	< 5	ug/L	CLH	02/03/15	2208
2,4-Dichlorophenol	625	5 '	< 5	ug/L	CLH	02/03/15	2208
4-Chloro 3-Methylphenol	625	5	< 5	ug/L	CLH	02/03/15	2208
Fluoranthene	625	5	√ < 5	ug/L	CLH	02/03/15	2208
2.4-Dinitrophenol	625	20	< 20	ug/L	CLH	02/03/15	2208
Pyrene	625	5	< 5	ug/L	CLH	02/03/15	2208
4,6 Dinitro-o-cresol	625	5	≤ 5	ug/L	CLH	02/03/15	2208
Pentachlorophenol	625	10	< 10	ug/L	CLH	02/03/15	2208
2,4,6-Trichlorophenol	625	5	<.5	ug/L	CLH	02/03/15	2208
Bis(2-chloroethyl) ether	625	5	≪5	ug/L	CLH	02/03/15	2208
Hexachloroethane	625	5	<5	ug/L	ĆLH	02/03/15	2208
1,2,4-Trichlorobenzene	625	5	< 5	ug/L	CLII	02/03/15	2208
Hexachlorobutadiene	625	5	<.5	ug/L:	CLH	02/03/15	2208
Hexachlorocyclopentadiene	625	Ś	< 5	ug/L	CLH	02/03/15	2208
2-Chloronaphthalene	625	5	<.5	ug/L	CLH	02/03/15	2208
Butyl benzyl phthalate	625	5	< 5	úg∕l.	CLH	02/03/15	2208
N-Nitrosodimethylamine	625	5	< 5	ue/L	CLH	02/03/15	2208
di-n-Butyl phthálate	625	5	< 5	ug/L	CLH	02/03/15	2208
Bis(2-chloroisopropyl) ether	625	5	< 5	ug/L	CLH	02/03/15	2208
N-Nitroso-di-n-propylamine	625	5	< 5	ug/L	CLH	02/03/15	2208
Nitrobenzene	625	3	< 5	ug/L	CLH	02/03/15	2208
Isophorone	625	5	< 5	ug/1.	CLH	02/03/15	2208
Bis(2-chloroethoxy)methane	625	5	< 5.	ug/L	CLH	02/03/15	2208
Naphthalene	625	5	< 5	ug/L	CLH	02/03/15	2208
4-Bromophenyl phenyl ether	625	5	< 5	ug/L	C1.H	02/03/15	2208
Hexachlorobenzene	625	5	< 5	ug/L	CLH	02/03/15	2208
Acenaphthylene	625		< 5	ug/L	CLH	02/03/15	2208
Anthracene	625	5 5	< 5	ug/L	C].H	02/03/15	2208
Phenanthrene	625	5	< 5	ug/L	CLH	02/03/15	.2208
N-nifroso-di-phenylamine	625	5	< 5	ug/L	CLH	02/03/15	2208
1.2,-Diphenylhydrazine	625	5	< 5	ug/L	CLH	02/03/15	2208
Diethyl phthalate	625	5	< 5	ug/L	CLH	02/03/15	2208
4-Chlorophenyl phenyl ether	625	5	< 5	ug/L	CLH	02/03/15	220
Fluorene	625	5	< 5	ug/L	CLH	02/03/15	2208
2,4-Dinitrotoluene	625	5	< 5	ug/L	. CLH	02/03/15	2208
Accuaphthene	625	5	< 5	ug/L	CLH	02/03/15	2208
2,6-Dinitrotoluene	625	5	< 5	ug/L	CLH	02/03/15	2208
Dimethyl phthalate	625	5	< 5	ug/l.	CLH	02/03/15	2208
Volatiles							
Trichlorofluoromethane	624	5	< 5	ug/l.	SDT	01/29/15	1725
Ethylberizene	624	.5	< 5	ug/L	SDT	01/29/15	1725

James R. Reed & Associates

770 Pilot House Drive. Newport News, VA 23606

(757) 873-4703 • Fax: (757) 873-1498



SAMPLE ID: STUARTS DRAFT EFF

SAMPLE NO: 15-01469

Parameter	Method Number	JRA QL	Result	Unit	Analyst	Date	Time
Volatiles	1,44,404,		1103111	O,HA	/4italy st	DATE	711110
2-Chloroethyl vinyl ether	624	10	< 10	ug/L	SDT	01/29/15	1725
Bromoform	624	5	< 5	ug/L	SDT	(11/29/15	1725
Tetrachloroethene	624	5	< 5	ug/L	SDT	01/29/15	1725 1725
Toluene	624	5	< 5	ug/L ug/L	SDT	01/29/15	1725
Chlorobenzene/Monochlorobenzene		5	< 5	ug/L	SDT	01/29/15	1725
cis-1,3-Dichloropropene	624	5	< 5	ug/L ug/L	SDT	01/29/15	1725
Acrolein	624	50	< 50.	ug/L	SDT	01/29/15	1725
Acrylonitrile	624	50	< 50	ug/L	SDT	01/29/15	1.725
1.3-Dichloropropene(cis & trans)	624	5	< 5	ug/L	SDT	01/29/15	1725
1,2-Dichlorobenzene	624	5	< 5	ug/L	SDT	01/29/15	1725
1,3-Dichlorobenzene	624	5	< 5	ug/L	SDT	01/29/15	1725
1,4-Dichlorobenzene	624	5	< 5	ug/L	SDT	01/29/15	1725
trans-1,2-Dichloroethene	624	5	< 5	ug/L	SDT	01/29/15	1725
Benzene	624	5	< 5	ug/L	SDT	01/29/15	1725
Dichlorodifluoromethane	624	5	< 5	ug/L	SDT	01/29/15	1725
1.1-Dichloroethane	624	5	< 5	ug/l.	SDT	01/29/15	1725
Bromomethane	624	5	<.5	ug/L	SDT	01/29/15	1725
Vinyl Chloride	624	5		ug/L	SDT	01/29/15	1725
1,1,2-Trichloroethane	624	5	< 5	ug/L	SDT	01/29/15	1725
Methylene Chloride/Dichloromethan		5	< 5	ug/L	SDT	01/29/15	1725
1, 1-Dichloroethene	624	5	< 5	$\frac{ug/L}{ug/L}$	SDT	01/29/15	1725
Chloromethane (Methyl Chloride)	624	5	< 5	ug/L	SDT	01/29/15	1725
cis-1,2-Dichloroethene	624		< 5	ug/L	SDT	01/29/15	1725
Chloroform	624	5 5 5 5	< 5	ug/L	SDT	01/29/15	1725
Dibromochloromethane	624	5	< 5	ug/L	SDT	01/29/15	1725
1,1,1-Trichloroethane	624	5	< 5	ug/L	SDT	01/29/15	1725
Carbon Tetrachloride	624	. 5	< 5	ug/L	SDT	01/29/15	1725
Bromodichloromethane	624	5	< 5	ug/L,	SDT	01/29/15	1725
1,1,2,2-Tetrachloroethane	624	5	< 5	ug/L	SDT	01/29/15	1725
Chloroethane	624	5	≤ 5 ·	ug/L	SDT	01/29/15	1725
1,2-Dichloropropane	624	5	< 5	ug/L	SDT	01/29/15	1725
trans-1,3-Dichloropropene	624	5	< 5	ug/L	SDT	01/29/15	1725
Trichloroethene	624	5	<.5	ug/L	SDT	01/29/15	1725
1,2-Dichloroethane	624	5	< 5	ug/L	SDT	01/29/15	1725

James R. Reed & Associates

770 Pilot House Drive, Newport News, VA 23606

(757) 873-4703 • Fax: (757) 873-1498



SAMPLE ID:

STUARTS DRAFT EFF

SAMPLE NO: 15-01469

Parameter Method Number

JRA QL

Result

Unit Analyst

lyst

Date

Time

NOTES:

ARA Quantification Level is the concentration of the lowest calibration standard above zero with a reliable signal.

Reproduction of this report is not permitted, except in full, without written approval from James R Read & Associates

The results on this report relate only to the sample(s) provided for analysis.

Results conform to NELAC standards, where applicable, unless otherwise indicated.

*SM 1997

Authorized By: Flater (

Elaing Claiborne, Laboratory Director

Date: 14-Aug-15

James R. Reed & Associates
770 Pilot House Drive, Newport News, VA 23606
(757) 873-4703 ● Fax: (757) 873-1498



CLIENT:

Augusta County Service Authority

ATTN:

Jean Andrews

ADDRÉSS: 18 Government Ctr Ln PO BOX 859

Verona, VA.24482-0859.

PHONE:

(540) 245-5670

FAX:

e: jandrews@co.augusta.va.us

Special Notes: Supplement to Report No.:15-04830 15:11

(Revised added Hardness)

RE: STUARTS DRAFT

EPA FORM 2A PART D

SAMPLE COLLECTED BY: CLIENT

GRAB COLLECTION:

Date: 4/1/2015

Time: 1015

COMPOSITE COLLECTION:

Start Date:

Time:

End Date:

Time:

PICK UP BY: UPS

SAMPLE RECEIPT:

Date: 4/2/2015

Time: 0920

NUMBER OF CONTAINERS: 8

SAMPLE CONDITION: Good | Other (See C-O-C)

REPORT NO: 15-04830 16:32

SAMPLE ID:

STUARTS DRAFT EFF

SAMPLE NO:

15-04830

	Method	ĴŔA		•			
Parameter	Number	QL	Result	Unit	Analyst	Date	Time
Total Recoverable Antimony	200.7	0.005	< 0.005	mg/L	EFA	04/06/15	1213
Total Recoverable Arsenic	200.7	0.005	< 0.005	mg/L	EFA	04/06/15	1213
Total Recoverable Beryllium	200,7	0.0005	< 0.0005	mg/L	EFA	04/06/15	1213
Total Recoverable Cadmium	200.7	0.0005	< 0.0005	mg/L	EFA	04/06/15	1213
Total Recoverable Chromium	200,7	0.001	< 0.001	mg/L	EFA	04/06/15	1213
Total Recoverable Copper	200.7	0.002	< 0.002	mg/L	EFA	04/06/15	1213
Total Recoverable Lead	200.7	0.005	< 0.005	${ m mg/L}$	LFA	04/06/15	1213
Total Recoverable Mercury	245:1	0.0002	< 0.0002	mg/L	PEJ	04/08/15	1528
Total Recoverable Nickel	200.7	0.005	< 0.005	mg/L.	EFA	04/06/15	1213
Total Recoverable Selenium	200.7	0.005	< 0.005	mg/l.	EFA	04/06/15	1213
Total Recoverable Silver	200.7	0.001	< 0.001	mg/L	EFA	04/06/15	1213
Total Recoverable Thallium	200.7	0.005	< 0.005	mg/L	EFA	04/06/15	1213
Total Recoverable Zinc	200.7	0.005	0.033	mg/L	EFA	04/06/15	1213
Phenols	420.4	0.02	< 0.02	mg/L	PEJ	04/07/15	1432
Cyanide	335,4	0.005	< 0.005	mgA.	ARC	04/09/15	1119
Hardness	*2340B	0.331	108	mg/L	EFA	04/06/15	1213
Semi-Volatiles							
2.4-Dichlorophenol	625	.5	< 5	ug/L	CLH	04/09/15	0000
-gamma-BIIC	625	-5	< 5	ug/L	CLH	04/09/15	0000
_beta-BHC	625	5 ,	< 5	ug/L	CEH	04/09/15	0000
-alpha-BHC	625	5	< 5	ug/L	CLH	04/09/15	0000
Pentachlorophenol	625	10	< 10	ug/L	GLH	04/09/15	0000
4,6 Dinitro-o-cresol	625	5	< 5	ug/L	CLH	04/09/15	0000
4-Nitrophenol	625	5	< 5	ug/L	CLH	04/09/15	0000
2,4-Dinitrophenol	625	20	< 20	$\mu g/L$	CLH	04/09/15	0000
4-Chloro 3-Methylphenol	625	5	< 5	úg/L	CLH	04/09/15	0000
-Endrin aldehyde	625	5	< 5	ug/L	CEH	04/09/15	0000
2,4-Dimethylphenol	625	,5	< 5	ug/L	CLH	04/09/15	0000
2-Nitrophenol	625	5	< 5	ug/L	CLH	(44/09/15	0000
Phenol	625	. 5	< 5	ug/L	CUH	04/09/15	0000

James R. Reed & Associates

770 Pilot House Drive, Newport News, VA 23606

(757) 873-4703 • Fax: (757) 873-1498



SAMPLE ID: STUARTS DRAFT EFF

SAMPLE NO: 15-04830

	Method	JRA				. .	enie.
Parameter	Number	QL	Result	Unit	Analyst	Date	Time
Semi-Volatiles							
2-Chlorophenol	625	5	≤ 5	ug/L	ČLH	04/09/15	0000
Benzo[g,h,i]Perylene	625	5	< 5	ug/L	CLH	04/09/15	0000
Dibenz[a,h]Anthracene	625	5	< 5	ug/L	CLH	04/09/15	0000
Heptachlor	625	5	< 5	ug/L	CLH	04/09/15	0000
2,4,6-Trichlorophenol	625	5	< 5	ug/L	CLH	04/09/15	0000
Indeno[1.2,3-c,d]Pyrene	625	5	< 5	ug/L	CLH	04/09/15	0000
PCB 1260	625	5	< 5∈	ug/L	CLH	04/09/15	0000
PCB 1254	625	5	< 5	ug/L	CLH	04/09/15	0000
PCB 1248	625	5	< 5	ug/L	CLH	04/09/15	0000
PCB 1232	625	5	< 5	ug/L	CLH	04/09/15	0000
PCB 1221	625	5	<.5	ug/L	CLH	04/09/15	0000
Toxaphene	625	20	< 20	ug/L	CLH	04/09/15	0000
-Endosulfan sulfate	625	5	< 5	ug/L	CLH	04/09/15	0000
beta Endosulfan	625	5	< 5	úg/L	CLH	04/09/15	0000
¬p.p-DDT	625	5	< 5	ug/L	CLH	04/09/15	0000
delta-BHC	625	.5	< 5	ug/L	CLH	04/09/15	0000
p.p-DDD	625	5	<.5	ug/L	CLH	04/09/15	0000
Endrin	625	5	< 5	ug/L	CLH	04/09/15	0000
-Dieldrin	625	5	< 5	ug/L	CLH	04/09/15	0000
p.p-DDE	625	5	< 5	ug/L	CLH	04/09/15	0000
alpha Endosulfan	625	5	< 5	ug/L	CLH	04/09/15	0000
Ileptachlor epoxide	625	5	< 5	ug/L	CLH	04/09/15	0000
Aldrin	625	5	< 5	ug/L	CLH	04/09/15	0000
-Chlordane	625	5	< 5	ug/L	CLH	04/09/15	9000
Bis(2-chloroisopropyl) ether	625	5	< 5	ug/L	CLH	04/09/15	0000
Acenaphthene	625	5	< 5	ug/L	CLII	04/09/15	0000
2,6-Dinitrotoluene	625	5	< 5	ug/l.	CLH	04/09/15	0000
Dimethyl phthalate	625	5	< 5.	ug/L	CLH	04/09/15	0000
Acenaphthylene	625	5	< 5	ug/L	CLH	04/09/15	0000
Naphthalene	625	5	< 5		CLH	04/09/15	0000
Isophorone	625	.s 5	< 5	ug/L	CLH	04/09/15	0000
Hexachloroethane	625	5	^ 3 < 5	ug/L	CLH	04/09/15	0000
2.4-Dinitrotoluene	625	5	< 5	ug/L	CLH	04/09/15	0000
1,2,4-Trichlorobenzene	625	5	< 5	ug/L	CLH	04/09/15	0000
Bis(2-chloroethoxy)methane	625	5	< 5	ug/L		04/09/15	
Bis(2-chloroethyl) ether	625	., 5	< 5	ນg/L 	CLH -	04/09/15	0000
N-Nitrosodimethylamine	625	5	< <u>5</u>	ug/L	CLH CLH	04/09/15	0000
Hexachlorobenzene	625	5	< 5 < 5	ug/L	CLH	04/09/15	0000
2-Chloronaphthalene	625	.s 5	< 5	ug/L.		04/09/15	0000
Hexachlorobutadiene	625			ug/L	CLH		0000
		5	< <u>\$</u>	ug/L	CLH	04/09/15	0000
Hexachlorocyclopentadiene	625	5	< 5	ug/L	CLH	04/09/15	0000
PCB 1016/1242	625	5	< 5	ug/L	CLH	04/09/15	0000
Benzola Pyrene	625	5	< 5	ug/L	CLH	04/09/15	0000
N-Nitroso-di-n-propylamine	625	5 (< 5	ug/L	CLH	04/09/15	0000

James R. Reed & Associates

770 Pilot House Drive, Newport News, VA 23606

(757) 873-4703 • Fax: (757) 873-1498



SAMPLE ID: SAMPLE NO: STUARTS DRAFT EFF

15-04830

Parameter	Method Number	JŘA QL	Result	Unit	Analyst	Date	Time
Semi-Volatiles							
3,3-Dichlorobenzidine	625.	5	< <u>\$</u>	ug/L	CLH	04/09/15	0000
Benzo[k]Fluoranthene	625	5	< 5	ug/L	CLH	04/09/15	0000
Benzo[b]Fluoranthene	625	5	< 5	ug/L	CLH	04/09/15	0000
Nitrobenzene	625	5	< 5	ug/L	CLH	04/09/15	0000
Bis(2-ethylhexyl) phthalate	625	5	< 5	ug/L	CLH	04/09/15	0000
Fluorene	625	5	< 5	ug/L	CLH	04/09/15	0000
Chrysene	625	5	<5	ug/L	CLH	04/09/15	0000
Benzo[a] Anthracene	625	5	< 5	ug/L	CLH	04/09/15	0000
Butyl benzyl phthalate	625	5	< 5	ug/L	CLH	04/09/15	0000
Benzidine	625	5	≤ 5	ug/L	CLII	04/09/15	0000
Pyrene	625	5	<.5	ug/L	CLH	04/09/15	0000
N-nitroso-di-phenylamine	625	5	× 5	ug/L	CLH	04/09/15	0000
Di-n-Octyl phthalate	625	.5	<.5	ug/L	ČLH	04/09/15	0000
Fluoranthene	625	5	<.5	ug/L	CLH	04/09/15	0000
1,2,-Diphenylhydrazine	625	.5	< 5	ug/L	CĹĤ	04/09/15	0000
4-Bromophenyl phenyl ether	625	5	< 5	ug/l.	CLH	04/09/15	0000
Phenanthrene	625	5	< 5	ug/L	CLH	04/09/15	0000
Anthracene	625	5	< 5	ug/L	CLH	04/09/15	0000
4-Chlorophenyl phenyl ether	625	5	< 5	ug/L	CLH	04/09/15	0000
di-n-Butyl phthalate	625	5	< 5	ug/L	CLH	04/09/15	0000
Diethyl phthalate	625	5	<5	ug/L	CLH	04/09/15	0000
Volatiles				. 4.3 —			
cis-1,3-Dichloropropene	624	5	< Ŝ	ug/L	SDT	04/03/15	1525
1,3-Dichlorobenzene	624	5	< 5	ug/L	SDT	04/03/15	1525
Ethylbenzene	624	5	< 5	ug/L	SDT	04/03/15	1525
Bromoform	624	5	< 5	ug/L	SDT	04/03/15	1525
Tetrachloroethene	624	5	<.5	ug/t.	SDT	04/03/15	1525
Toluene	624	5	< 5	ug/L	SDT	04/03/15	1525
Chlorobenzene/Monochlorobenzene	624	5	< 5	ug/L	SDT	04/03/15	1525
Acrolein	624	50	< 50	ug/L	SDT	04/03/15	1525
Acrylonitrile	624	50	< 50	ug/l.	SDT	04/03/15	1525
1,2-Dichlorobenzene	624	5	< 5	ug/L	SDT	04/03/15	1525
1.4-Dichlorobenzene	624	5	< 5°	ug/L	SDT	04/03/15	1525
Dichlorodifluoromethane	624	5	< 5	ug/L	SDT	04/03/15	1.525
trans-1,2-Dichloroethene	624	5	< 5	ug/L	SDT	04/03/15	1525
Benzene	624	Ś.	≪.5	ug/L	SDT	04/03/15	1525
1,1,2-Trichloroethanc	624	5	< 5	ug/L	SDT	04/03/15	1525
1,3-Dichloropropene(cis & trans)	624	5	< 5	ug/L	SDT	04/03/15	1525
Methylene Chloride/Dichloromethan	e 624	5	< 5	ug/L	SDT	04/03/15	1525
2-Chloroethyl vinyl ether	624	10	< 10	ug/L	SDT	04/03/15	1525
Chloromethane (Methyl Chloride)	624	5	< 5	ug/L	SDT	04/03/15	1525
Bromomethane	624	5	< 5	ug/L	SDT	64/03/15	1525
Dibromochloromethane	624	5	< 5	ug/L	SDT	04/03/15	1525
Chloroethane	624	5	< 5	ug/L	SDT	(14/03/15	1525

James R. Reed & Associates

770 Pilot House Drive, Newport News, VA 23606

(757) 873-4703 • Fax: (757) 873-1498



3 34.

SAMPLE ID:

STUARTS DRAFT EFF

SAMPLE NO:

15-04830

Parameter	Method Nümber	JRA QL	Result	Unit	Analyst	Date	Time
Volatiles			-				
Trichlorofluoromethane	624	5 .	< 5	ug/L	SDT	04/03/15	1525
1.1-Dichloroethene	624	5	< 5	սջ/Լ,	SDT	04/03/15	1525
1.1-Dichloroethane	624	5	< 5	ug/L	SDT	04/03/15	1525
cis-1,2-Dichloroethene	624	5	< 5	ug/L	SDT	04/03/15	1525
Trichloroethene	624	5	< 5	ug/L	SDT	04/03/15	1525
1.2-Dichloroethane	624	5	< 5	ug/L	SDT	04/03/15	1525
1.1.1-Trichloroethane	624	5	< 5	ug/L	SDT	04/03/15	1525
Carbon Tetrachloride	624	5	< 5	ug/L	SDT	04/03/15	1525
Vinyl Chloride	624	5	< 5	ug/L	SDT	04/03/15	1525
Bromodichloromethane	624	5	< 5	ug/L	SDT	04/03/15	1525
1,1,2,2-Tetrachloroethane	624	5	< 5	ug/L	SDT	04/03/15	1525
1,2-Dichloropropane	624	5	< 5	ug/L	SDT	04/03/15	1525
trans-1,3-Dichloropropene	624	5	< 5	ug/L	SĎT	04/03/15	1525
Chloroform	624	5	<.5	ug/L	SDT	04/03/15	1525

NOTES:

JRA Quantification Level is the concentration of the lowest calibration standard above zero with a reliable signal.

Reproduction of this report is not pennitted, except an full, without written approval from James R Reed & Associates.

The results on this report relate only to the sample(s) provided for analysis.

Results conform to NELAC standards, where applicable, unless otherwise indicated.

*SM 1997

Authorized By:

Elaine Claiborne, Laboratory Director

Date: 14-Aug-15

James R. Reed & Associates

770 Pilot House Drive, Newport News, VA 23606

(757) 873-4703 • Fax: (757) 873-1498



CLIENT:

Augusta County Service Authority

ATTN:

Jean Andrews

ADDRESS: 18 Government Ctr Ln PO BOX 859

Verona, VA 24482-0859

PHONE:

(540) 245-5670

FAX:

e: jandrews@co.augusta.va.us

Special Notes: Supplement to Report No.:15-10281 17:26

(Revised added Hardness)

RE: STUARTS DRAFT - EPA FORM 2A, PART D

SAMPLE COLLECTED BY: CLIENT

GRAB COLLECTION:

Date: 7/14/2015

Time: 0000

COMPOSITE COLLECTION:

Start Date:

Time:

End Date:

Time:

PICK UP BY: UPS

SAMPLE RECEIPT: Date: 7/15/2015

Time: 0920

NUMBER OF CONTAINERS: 8

SAMPLE CONDITION: Good. __ Other (See C-O-C)

REPORT NO: 15-10281 16:35

SAMPLE ID:

STUARTS DRAFT EFF

SAMPLE NO: 15-10281

Ď	Method Number	JRA QL	Result	Unit	Analyst	Datë	Time
Parameter						07/23/15	1415
Total Recoverable Antimony	200.7	0.005	< 0.005	mg/L	EFA	07/23/15	
Total Recoverable Arsenic	200.7	0.005	< 0.005	mg/L	EFA	07/23/15	1415
Total Recoverable Beryllium	200.7	0.0005	< 0.0005	mg/L	EFA		1415
Total Recoverable Cadmium	200.7	0.0005	< 0.0005	ing/L	EFA	07/23/15	1415
Total Recoverable Chromium	200:7	0.001	< 0.001	ing/L	EFA	07/23/15	1415
Total Recoverable Copper	200.7	0.002	0.003	mg/L	EFA	07/23/15	1415
Total Recoverable Lead	200.7	0.005	< 0.005	mg/L	EFA	07/23/15	1415
Total Recoverable Mercury	245.1	0.0002	< 0.0002	mg/L	PLJ	07/21/15	1558
Total Recoverable Nickel	200.7	0.005	< 0.005	mg/L	EFA	07/23/15	1415
Total Recoverable Selenium	200.7	0.005	< 0.005	mg/L	EFA	07/23/15	14.15
Total Recoverable Silver	200.7	0.001	< 0.001	mg/L	EFA	07/23/15	1415
Total Recoverable Thallium	200.7	0.005	< 0.005	mg/L	ÉFÁ	07/23/15	1415
Total Recoverable Zinc	200.7	0.005	0.044	mg/L	EFA	07/23/15	1415
Phenols	420.4	0.02	0.03 M	mg/L	hĒl	07/15/15	1449
Cyanide	335.4	0.005	< 0.005	me/L	ARC	07/16/15	1315
Hardness	*2340B	0.331	108	mg/L_c	EFA	07/23/15	1415
Semi-Volatiles							
4-Bromophenyl phenyl ether	625	5	< Ś	ug/L	CLH	07/23/15	0029
Fluorene	625	5	< 5	ug/L	CLH	07/23/15	0029
4-Chlorophenyl phenyl ether	625	5	< 5	${\sf ug/L}$	CLH	07/23/15	0029
Diethyl phthalate	625	5.	< 5	ug/L	CLH	07/23/15	0029
Chrysene	625	5	<.5	սջ/Լ	CLH	07/23/15	0029
1,2,-Diphenylhydrazine	625	5.	< 5	ue/L	CLH	07/23/15	0029
N-nitroso-di-phenylamine	625	5	< 5	ug/L	CLII	07/23/15	0029
Phenanthrene	625	5	< 5	ug/L	CLH	07/23/15	0029
Anthracene	625	5	< 5	ug/L	CLH	07/23/15	0029
di-n-Butyl phthalate	625	5	< 5	ug/L	CLH	07/23/15	0029
Fluoranthene	625	5	< 5	ug/L	CLH	07/23/15	0029
Pyrene Pyrene	625	5	≤ 5	ug/L	Cl ₂ H	07/23/15	0029
Benzidine	625	5	< 5	ug/L	CLH	07/23/15	0029

James R. Reed & Associates

770 Pilot House Drive, Newport News, VA 23606

(757) 873-4703 • Fax: (757) 873-1498

VELAP# 460013

EPA# VA00015



SAMPLE ID: STUARTS DRAFT EFF

SAMPLE NO: 15-10281

	Method	JRA	n			в.	
Parameter	Number	QL .	Result	Unit	Analyst	Date	Time
Semi-Volatiles							
Benzo[a]Anthracene	625	5	< 5	ug/L	CLH	07/23/15	0029
Bis(2-chloroethoxy)methane	625	5	·<5	ug/L	CLH	07/23/15	0029
3,3-Dichlorobenzidine	625	Ś	< 5	ug/L	CLH	07/23/15	0029
Butyl benzyl phthalate	625	5	< 5	ug/L	CUH	07/23/15	0029
N-Nitroso-di-n-propylamine	625	5	< 5	ug/L	CLH	07/23/15	0029
Hexachloroethane	625	5	< 5	ug/L	CLH	07/23/15	0029
1,2,4-Trichtorobenzene	625	5	< 5	ijg∕L	CLH	07/23/15	0029
Hexachlorobutadiene	625	5	< 5	ug/L	Cl.H	07/23/15	0029
Hexachlorocyclopentadiene	625	5	< 5	ug/L	CLH	07/23/15	0029
2-Chloronaphthalene	625	5	< 5	ug/L	ÇL,H	07/23/15	0029
Hexachlorobenzene	625	5	< 5	ug/L	CLH	07/23/15	0029
N-Nitrosodimethylamine	625	5	< 5	ug/L	CLII	07/23/15	0029
Acenaphthylene	625	5	< 5	ug/L	CLH	07/23/15	0029
Bis(2-chloroisopropyl) ether	625	.5	< 5	ug/L	CLH	07/23/15	0029
2.4-Dinitrotoluene	625	5	< 5	ug/L	CLH	07/23/15	6029
Nitrobenzene	625	5	< 5	ug/L	CLH.	07/23/15	0029
Isophorone	625	5	< 5	ug/L	CLH	07/23/15	0029
Benzo[k]Fluoranthene	625	5	< 5	ug/L	CLH.	07/23/15	0029
Naphthalene	625	5	< 5	ug/L	CLH	07/23/15	0029
Dimethyl phthalate	625	5	< 5	ug/L	CLH	07/23/15	0029
2,6-Dinitrotoluene	625	5	< 5	ug/L	CLH	07/23/15	0029
Accnaphthene	625	5	< 5	ug/L	CLH	07/23/15	0029
Bis(2-chloroethyl) ether	625	5	< 5	ug/L	CLH "	07/23/15	0029
4,6 Dinitro-o-cresol	625	5	< 5	ug/L	CLH	07/23/15	0029
Di-n-Octyl phthalate	625	5	< 5	ug/L	CLH	07/23/15	0029
Bis(2-ethylhexyl) phthalate	625	5	<\$	ug/L	CLH	07/23/15	0029
Pentachlorophenol	625	1.0	< 10	ug/L	CLH	07/23/15	0029
4-Nitrophenol	625	5	< 5	ug/L	CLH	07/23/15	0029
2,4-Dinitrophenol	625	20	< 20	ug/L	CLH	07/23/15	0029
2,4,6-Trichlorophenol	625	5	< 5	ug/L	CLII	07/23/15	0029
4-Chloro 3-Methylphenol	625	5	< 5	ug/L	CLH	07/23/15	0029
2,4-Dichlorophenol	625	5	< 5	ug/L	CLH	07/23/15	0029
Indeno[1,2,3-c,d]Pyrene	625	5	< 5	ug/L	CLH	07/23/45	0029
2-Nitrophenol	625	5	< 5	ug/L	CLH	07/23/15	0029
Phenol	625	5	< 5	ug/L	CLH	07/23/15	0029
2-Chlorophenol	625	5	≪ 5	ug/L	CLH	07/23/15	0029
Benzo[g,h,i]Perylene	625	5	< 5	ug/L	CLH	07/23/15	0029
Dibenz[a,h]Anthracene	625	5	< 5	սջ/Լ.	CLH	07/23/15	0029
Benzo[a]Pyrene	625	5	< 5	ug/L	CLH	07/23/15	0029
Benzo[b]Fluoranthene	625	5	< 5	ug/L ug/L	CLII	07/23/15	0029
2,4-Dimethylphenol	625	5	< 5 CC	ug/L ug/L	CLH	07/23/15	0029
Volatiles	029	ن	The second second	ng/L	V/L/III	CIPEDIA	1/1/47
	624		6	.99	(180.00	0920011	
Ethylbenzene (Manual Institute)	624	5	< 5	ug/L	SDT	07/20/15	1350
Chlorobenzene/Monochlorobenzene	024	5	< 5	ug/L	SDT	07/20/15	1350

James R. Reed & Associates

770 Pilot House Drive, Newport News, VA 23606

(757) 873-4703 • Fax: (757) 873-1498

VELAP# 460013

EPA# VA00015



Su di Geo

SAMPLE ID: STUARTS DRAFT EFF

SAMPLE NO: 15-10281

Parameter	Method Number	JRA QL	Result	Ųnit	Analyst	Date	Time
Volatiles	:						
Toluene	624	5	< 5	ug/L	SDT	07/20/15	1350
Bromoform	624	5	< 5	ug/L	SDT	07/20/15	1350
1,2-Dichlorobenzene	624	5	< 5	ug/L	SDT	07/20/15	1350
2-Chloroethyl vinyl ether	624	10 -	< 10	ug/L-	SDT	07/20/15	1350
Tetrachloroethene	624	5	< 5	ug/L	SDT	07/20/15	1350
Acrolein	624	50	< 50	ug/L	SDŤ	07/20/15	1350
trans-1.2-Dichloroethene	624	5.	< 5	ug/L	SDT	07/20/15	1350
1,3-Dichloropropene(cis & trans)	624	5	< 5	ug/L	SDT	07/20/15	1350
1,3-Dichlorobenzene	624	5	< 5	ug/L	SDT	07/20/15	1350
1.4-Dichlorobenzene	624	5	< 5	ug/L	SDT	07/20/15	1350
Benzene	624	5	< 5	ug/L	SDT	07/20/15	1350
1.1-Dichloroethane	624	5	< 5	ug/L	SDT	07/20/15	1350
Acrylonitrile	624	50	< 50	ug/L	SDT	07/20/15	1350
1,1,1-Trichloroethane	624	5	< 5	ug/L	SDT	07/20/15	1350
Chloromethane (Methyl Chloride)	624	5	< 5	ug/L	SDT	07/20/15	1350
Bromomethane	624		<.5	ug/L	SDT	07/20/15	1350
Vinyl Chloride	624	5 5	< 5	ug/L	SDT	07/20/15	1350
Chloroethane	624	5	< 5	ug/L	SDT	07/20/15	1350
Methylene Chloride/Dichlorometha		5	<i>s</i> 5	ug/L	SDT	07/20/15	1350
1.2-Dichloroethane	624	5	< 5	ug/L	SDT	07/20/15	1350
Chloratorm	624	5	< 5	ug/L	SDT	07/20/15	1350
1.1.2-Trichloroethane	624	5	< 5	ug/L	SDT	07/20/15	1350
Carbon Tetrachloride	624	5	< 5	ug/L	SDT	07/20/15	1350
Bromodichloromethane	624	5	<.5	ug/L	SDT	07/20/15	1350
1.1.2.2-Tetrachloroethane	624	, 5	< 5	ug/l	SDT	07/20/15	1350
1,2-Dichloropropane	624	5 5	< 5	ug/L	SDT	07/20/15	1350
Trichloroethene	624	5	< 5	ug/L	SDT	07/20/15	1350
Dibromochloromethane.	624	5	< 5	ug/l.	SDT	07/20/15	1350
1.1-Dichloroethene	624	5.	< 5	ug/L	SDT	07/20/15	1350

James R. Reed & Associates

770 Pilot House Drive, Newport News, VA 23606

(757) 873-4703 • Fax: (757) 873-1498



SAMPLE ID:

STUARTS DRAFT EFF

SAMPLE NO:

Parameter

15-10281

Method Number JRA QL

Result

Unit Analyst

Date

Time

NOTES:

JRA Quantification Level is the concentration of the lowest calibration standard above zero with a reliable signal.

Reproduction of this report is not permitted, except in full, without written approval from James R Read & Associatés.

The results on this report relate only to the somple(s) provided for analysis.

Results conform to NELAC standards, where applicable, unless otherwise indicated

*SM 1997

M - Matrix spike 1% recovery outside acceptance range

CC - Calibration check standard above QC acceptance range, qualyte not detected

Authorized By: Claim Cl

Elaine Claiborne, Laboratory Director

Date: 14-Aug-15

